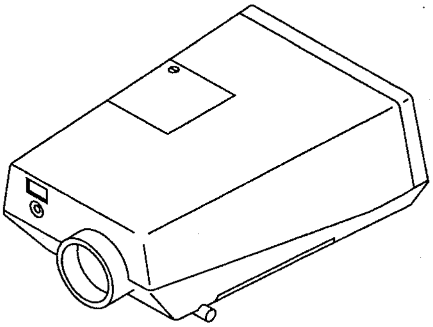
VPL-S800U/S800M

PK-PJ800/PSS-800/SU-PJ800

SERVICE MANUAL

VPL-S800U
US Model
Canadian Model

VPL-S800M
AEP Model



ID CHASSIS

SPECIFICATIONS

VPL-S800U/S800M

Optical characteristics

Projection system	3 LCD panels, 1 lens, projection system
LCD panel	1.3-inch TFT LCD panel, 1,557,504 pixels (519,168 pixels × 3)
Lens	Option
Light output	ANSI lumen[1] 700 lm
Lamp	400 W metal halide

Electrical characteristics

Color system	NTSC$_{3.58}$/PAL/SECAM/NTSC$_{4.43}$/PAL-M system, switched automatically
Resolution	600 horizontal TV lines (video input) 832 × 624 dots (RGB input)
Acceptable computer signal	fH:15 to 65 kHz fV:38 to 120 Hz
Speaker	Max. 3 W, 90 × 50 mm (3 $^{5}/_{8}$ × 2 inches) monaural

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[1] ANSI lumen is a measuring method of American National Standard IT 7.228.

LCD DATA PROJECTOR

SONY

Input/Output

CONTROL S	IN/PLUG IN POWER: Stereo minijack 5 Vp-p, plug in power, DC 5 V maximum output 60 mA OUT: Stereo minijack, 5 Vp-p
REMOTE RS-422A	D-sub 9-pin (female) *(For details, see "Pin assignment" on page 50 (EN).)*
TRIG	Minijack, 5 Vp-p Power on: DC 5 V output, impedance more than 4.7 kilohms Power off: 0 V
S VIDEO (priority to Y IN/C IN)	IN: Mini DIN 4-pin type (male) Y (luminance): 1 Vp-p ±2 dB sync negative, (75 ohms terminated) C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), (75 ohms terminated) Burst 0.3 Vp-p ±2 dB (PAL), (75 ohms terminated) OUT: Loop-through mini DIN 4-pin type (male) Loop-through output from the S VIDEO IN connector Y IN: BNC-type Y (luminance): 1 Vp-p ±2 dB sync negative, (75 ohms terminated) C IN: BNC-type C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC) (75 ohms terminated), 0.3 Vp-p ±2 dB (PAL) (75 ohms terminated)
VIDEO	IN: Composite video: BNC-type 1 Vp-p ±2 dB sync negative, (75 ohms terminated) OUT: Loop-through BNC-type Loop-through output from the VIDEO IN connector
AUDIO IN	Phono type (stereo) 500 mVrms, impedance more than 47 kilohms
INPUT A	Analog RGB/component: BNC-type R/R-Y: 0.7 Vp-p ±2 dB positive, (75 ohms terminated) G: 0.7 Vp-p ±2 dB positive, (75 ohms terminated) G with sync/Y: 1 Vp-p ±2 dB sync negative, (75 ohms terminated) B/B-Y: 0.7 Vp-p ±2 dB positive, (75 ohms terminated) SYNC/HD: Composite sync: 0.6-8 Vp-p high impedance, sync positive/negative Horizontal sync: 0.6-8 Vp-p high impedance, sync positive/negative VD: Vertical sync: 0.6-8 Vp-p high impedance, sync positive/negative AUDIO IN: Phono type 500 m Vrms, impedance more than 47 kilohms
REMOTE 1 IN/OUT	14-pin multi connector *(For details, see "Pin assignment" on page 50 (EN).)*
AUDIO OUT (variable out)	Phono type Max. 1 Vrms When input is 500 mVrms, impedance less than 5 kilohms
Safety regulations	VPL-S800U: UL1950, CSA950, FCC , IC VPL-S800M: EN60 950 (TÜV), CE, C-Tick

General

Dimensions	480 × 239 × 663 mm (19 × 9 1/2 × 26 1/8 inches) (w/h/d)
Mass	Approx. 24 kg (52 lb 15 oz) (excluding the optional lens)
Power requirements	VPL-S800U: AC 100 to 120 V/220 to 240 V, 50/60 Hz[1] VPL-S800M: AC 220 to 240 V, 50/60 Hz
Power consumption	Max. 570 W (Standby mode: 15 W)
Heat dissipation	1945 BTU
Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	35% to 85% (no condensation)
Storage temperature	–20°C to +60°C (–4°F to +140°F)
Storage humidity	10% to 90%
Supplied Accessories	Remote Commander RM-PJM800 (1) Size AA (R6) batteries (2) Remote commander cable (15 m) (1) AC Power cord (1) Operating Instructions (1) Installation Manual for Dealers (1)

Design and specifications are subject to change without notice.

Optional accessories

- Projector Lamp PK-PJ800 (for replacement)
- Interface Board
  - IFB-12 (Composite video input/output with 5BNC type connectors)
  - IFB-20 (Analog RGB input with D-sub 9-pin type connector)
  - IFB-21 (Analog RGB input/output with HD D-sub 15-pin type connector)
  - IFB-30 (Digital RGB input with D-sub 9-pin type connector)
  - IFB-1000 (Composite video input with BNC type connector/S-Video input with mini DIN 4-pin type connector)
- Signal Interface Switcher PC-1271/1271M
- Interface Unit IFU-1271/1271M
- SIC Cable
  - SIC-10/20A/20C/21/22/30/31/M1/M5/M15/M25/M50
  - CCQ-2BRS/5BRS/10BRS/25BRS/50BRS
- 9-pin remote cable (for RS-422A)
  - RCC-5G/10G/30G
- Monitor Cable
  - SMF-400 (HD D-sub 15-pin (female) ←→ 5BNC)
  - SMF-401 (HD D-sub 15-pin (female) ←→ HD D-sub 15-pin (female))
- Signal Adapter
  - ADP-10 (D-sub 9-pin ←→ HD D-sub 15-pin (for SIC Cable))
  - ADP-20 (Macintosh ←→ VGA)
- Remote Commander RM-PJ1000
- Mouse Receiver RM-PJ20/PJ21
- Remote Control Receiver RM-PJ10
- Projection Lens
  - Fixed short focus lens VPLL-FM20
  - Fixed short focus lens VPLL-FM30
  - 1.5 times zoom standard focus lens VPLL-ZP40
  - 2.0 times zoom long focus lens VPLL-ZP100
- Projector Stand SU-PJ800 (for twin-stacking)
- Projector Suspension Support
  - PSS-10/800
- Screens
  - VPS-80FH (80-inch, flat)
  - VPS-100FH (100-inch, flat)
  - VPS-120FH (120-inch, flat)

Some of the items may not be available in some areas. For details, please consult your nearest Sony office.

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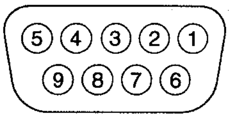
[1] UL listed for 120 V operation.

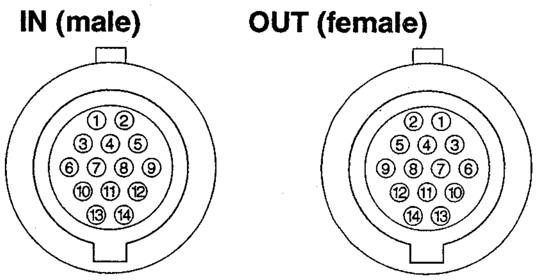
Pin assignment

RS-422A connector (D-sub 9-pin, female)



1	GND	Ground	6	GND	Ground
2	$\overline{\text{TX}}$	$\overline{\text{Transmit}}$	7	TX	Transmit
3	RX	Receive	8	$\overline{\text{RX}}$	$\overline{\text{Receive}}$
4	GND	Ground	9	GND	Ground
5	NC				

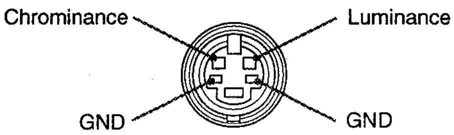
REMOTE 1 IN/OUT connector (14-pin multi-connector)


IN (male)
OUT (female)
① ②
③ ④ ⑤
⑥ ⑦ ⑧ ⑨
⑩ ⑪ ⑫
⑬ ⑭
② ①
⑤ ④ ③
⑨ ⑧ ⑦ ⑥
⑫ ⑪ ⑩
⑭ ⑬

Pin No.	Signal	Signal level
1	GND	Ground
2	HD/C. sync	1Vp-p ± 3 dB
3	SIRCS	5Vp-p ± 1 dB
4	N.C.	Non connection
5	GND (SIRCS)	Ground
6	B/C	B: 0.7 Vp-p ± 3 dB, 75-ohm C (NTSC): 0.286 Vp-p ± 3 dB, 75-ohm C (PAL): 0.3 Vp-p ± 3 dB,75-ohm
7	GND (B.R.)	Ground
8	GND (G)	Ground
9	G/Y	G: 0.7 Vp-p (sync-on-green: 1 Vp-p) ± 3 dB, 75-ohm Y: 1 Vp-p ± 3 dB, 75-ohm
10	RGB/Video	5V / 0V
11	R/C. Video	R: 0.7 Vp-p ± 3 dB, 75-ohm C.Video: 1 Vp-p ± 3 dB, 75-ohm
12	C.Video/YC	5V / 0V
13	Audio	500 mVrms, output impedance 1 kohm
14	V.sync	1 Vp-p ± 3 dB, 75-ohm

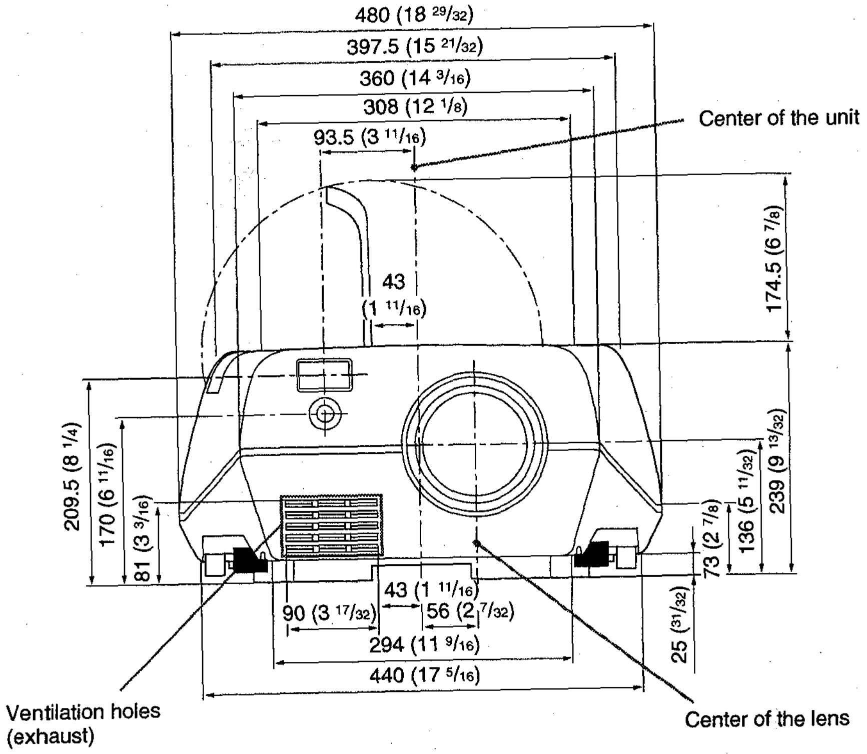
The input singals are constantly output from the REMOTE 1 OUT connector.

S VIDEO connector (4 pin, mini-DIN)

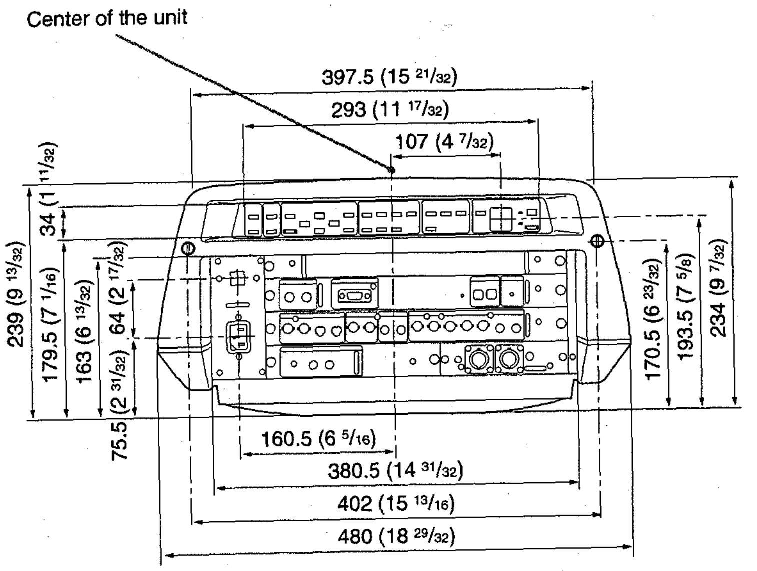

Chrominance
Luminance
GND
GND

Dimensions

Front


480 (18 29/32)
397.5 (15 21/32)
360 (14 3/16)
308 (12 1/8)
93.5 (3 11/16)
Center of the unit
43 (1 11/16)
174.5 (6 7/8)
209.5 (8 1/4)
170 (6 11/16)
81 (3 3/16)
239 (9 13/32)
136 (5 11/32)
73 (2 7/8)
43 (1 11/16)
90 (3 17/32)
56 (2 7/32)
294 (11 9/16)
440 (17 5/16)
25 (31/32)
Ventilation holes (exhaust)
Center of the lens

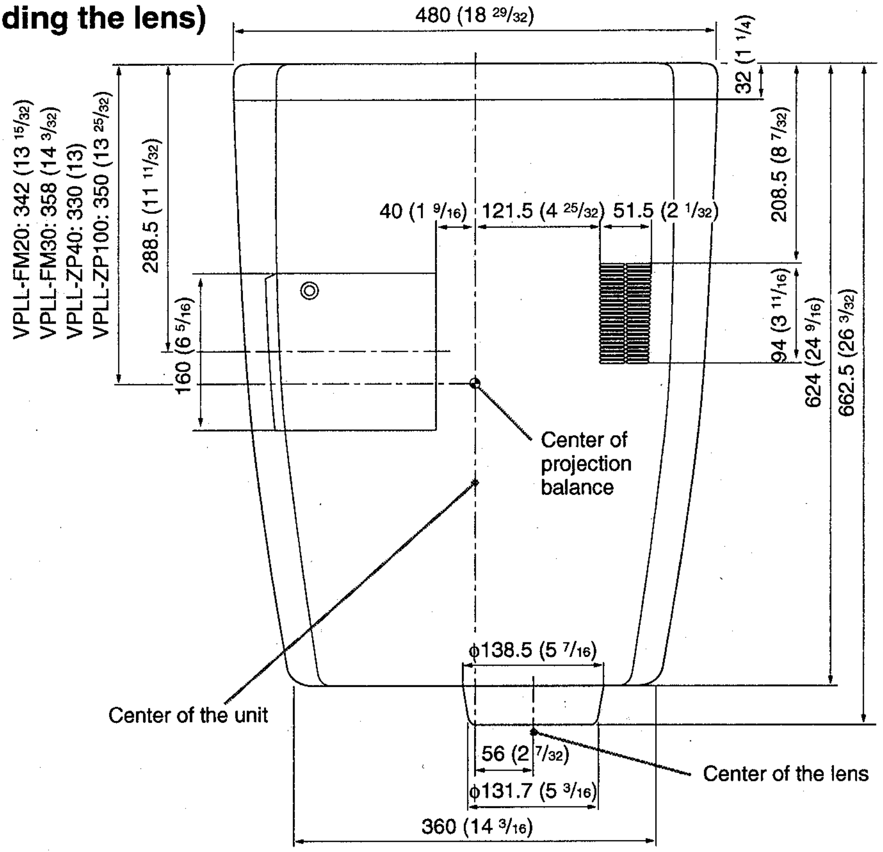
Rear


Center of the unit
397.5 (15 21/32)
293 (11 17/32)
107 (4 7/32)
34 (1 11/32)
239 (9 13/32)
179.5 (7 1/16)
163 (6 13/32)
64 (2 17/32)
75.5 (2 31/32)
170.5 (6 23/32)
193.5 (7 5/8)
234 (9 7/32)
160.5 (6 5/16)
380.5 (14 31/32)
402 (15 13/16)
480 (18 29/32)

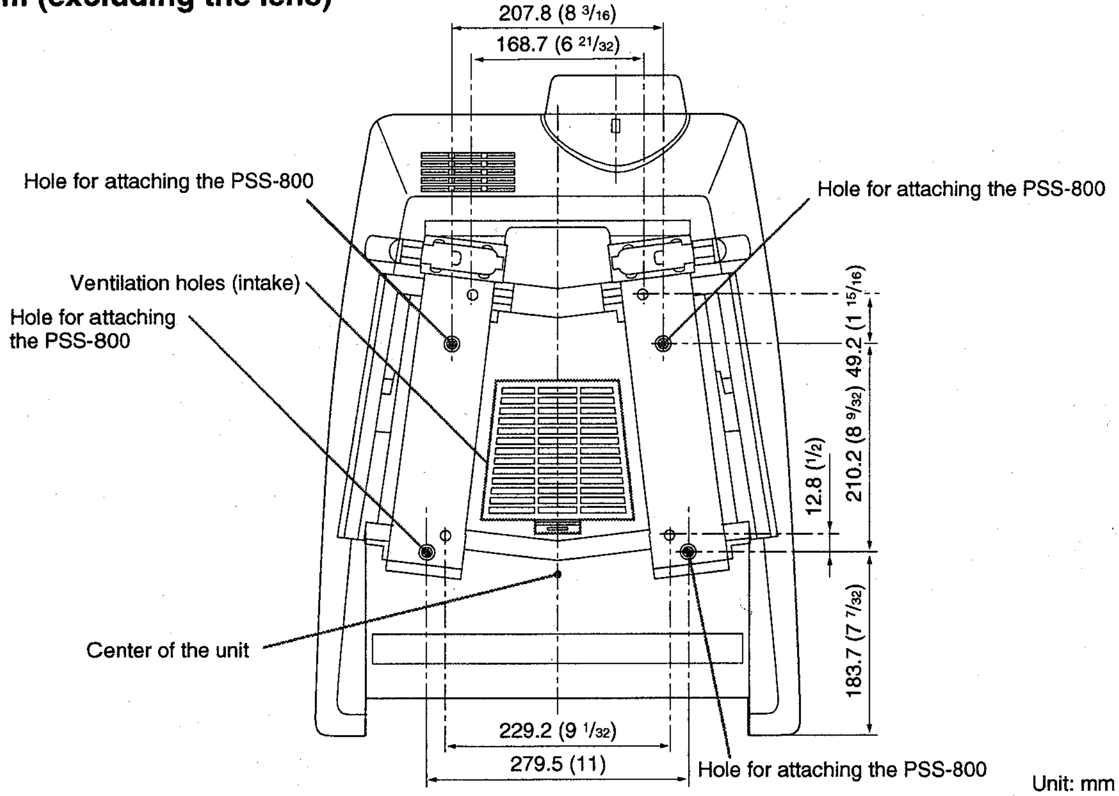
Unit: mm (inches)

(Continued)

Top (excluding the lens)

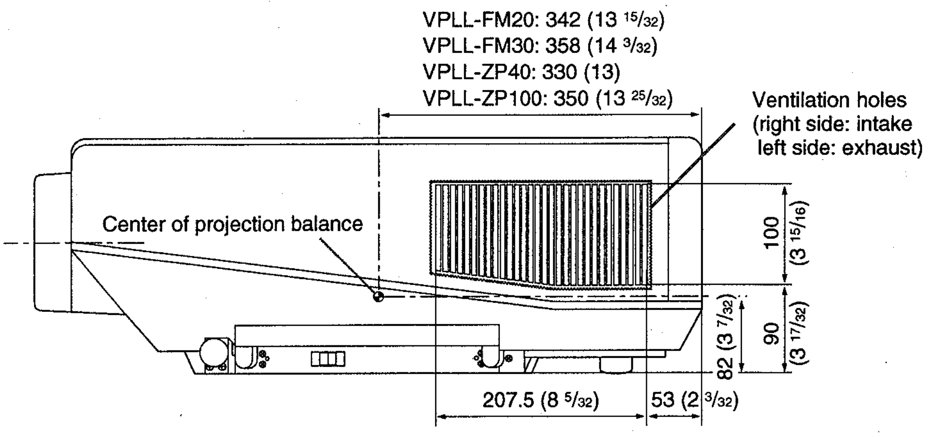

480 (18 29/32)
32 (1 1/4)
VPLL-FM20: 342 (13 15/32)
VPLL-FM30: 358 (14 3/32)
VPLL-ZP40: 330 (13)
VPLL-ZP100: 350 (13 25/32)
288.5 (11 11/32)
208.5 (8 7/32)
40 (1 9/16)
121.5 (4 25/32)
51.5 (2 1/32)
160 (6 5/16)
94 (3 11/16)
624 (24 9/16)
662.5 (26 3/32)
Center of projection balance
ϕ138.5 (5 7/16)
Center of the unit
56 (2 7/32)
Center of the lens
ϕ131.7 (5 3/16)
360 (14 3/16)

Bottom (excluding the lens)


207.8 (8 3/16)
168.7 (6 21/32)
Hole for attaching the PSS-800
Hole for attaching the PSS-800
Ventilation holes (intake)
Hole for attaching the PSS-800
49.2 (1 15/16)
210.2 (8 9/32)
12.8 (1/2)
Center of the unit
183.7 (7 7/32)
229.2 (9 1/32)
279.5 (11)
Hole for attaching the PSS-800

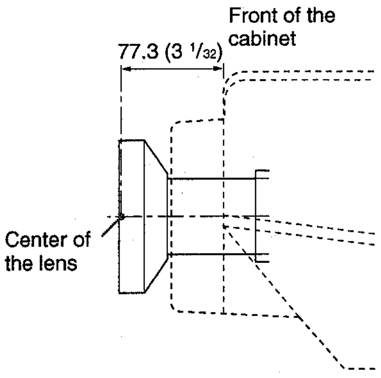
Unit: mm (inches)

Side (excluding the lens)

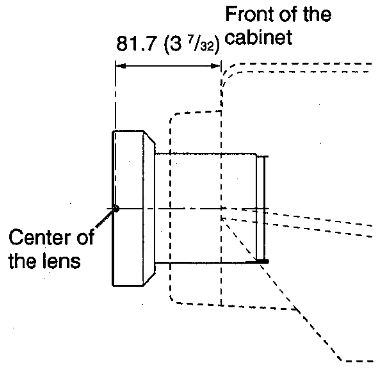

VPLL-FM20: 342 (13 15/32)
VPLL-FM30: 358 (14 3/32)
VPLL-ZP40: 330 (13)
VPLL-ZP100: 350 (13 25/32)
Ventilation holes (right side: intake left side: exhaust)
Center of projection balance
100 (3 15/16)
90 (3 17/32)
82 (3 7/32)
207.5 (8 5/32)
53 (2 3/32)

Dimensions from the front of the cabinet to the center of the lens

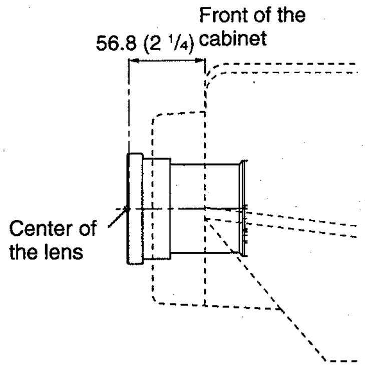
When installing the VPLL-FM20 Fixed short focus lens


Front of the cabinet
77.3 (3 1/32)
Center of the lens

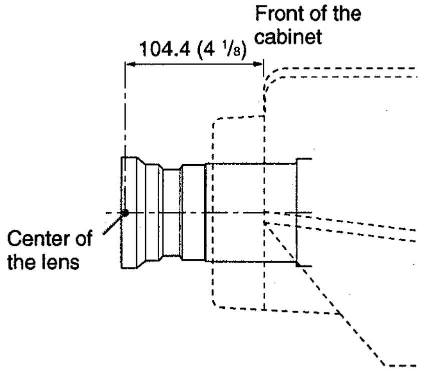
When installing the VPLL-FM30 Fixed short focus lens


Front of the cabinet
81.7 (3 7/32)
Center of the lens

When installing the VPLL-ZP40 1.5 times zoom standard focus lens


Front of the cabinet
56.8 (2 1/4)
Center of the lens

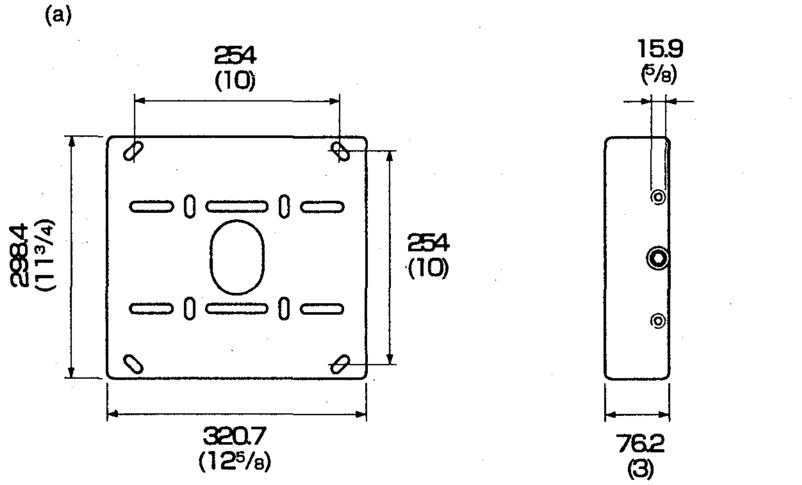
When installing the VPLL-ZP100 2.0 times zoom long focus lens


Front of the cabinet
104.4 (4 1/8)
Center of the lens

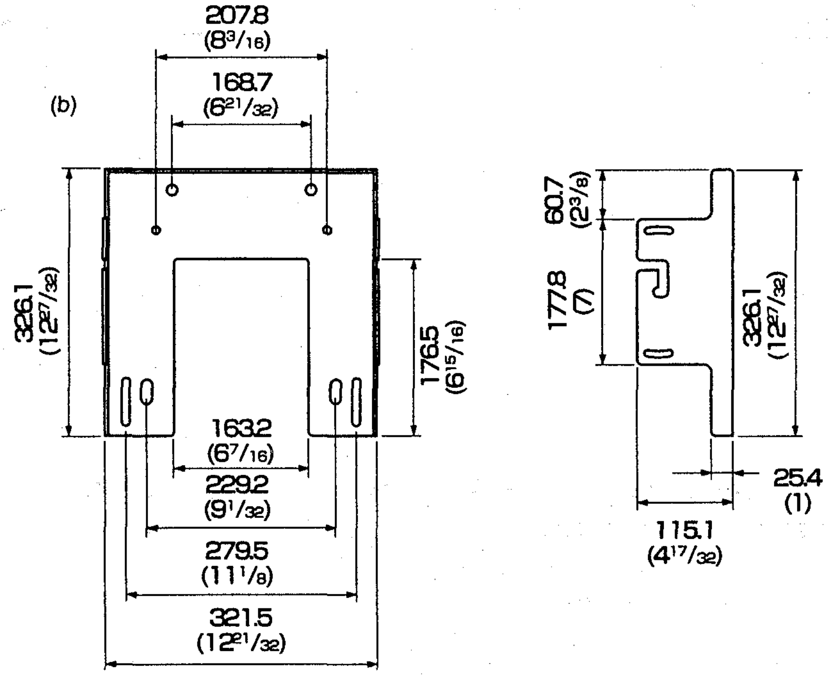
Unit: mm (inches)

PSS-800 Dimensions

Base box


(a)
254
(10)
15.9
(5/8)
298.4
(11 3/4)
254
(10)
320.7
(12 5/8)
76.2
(3)

Suspension bracket


(b)
207.8
(8 3/16)
168.7
(6 21/32)
326.1
(12 27/32)
176.5
(6 15/16)
163.2
(6 7/16)
229.2
(9 1/32)
279.5
(11 1/8)
321.5
(12 21/32)
60.7
(2 3/8)
177.8
(7)
326.1
(12 27/32)
25.4
(1)
115.1
(4 17/32)

Units : mm (inches)

Mass Approx. 5.8 kg (12 lb 12 oz)
Loading Maximum loading :30 kg (66 lb 2 on)

Design and specifications are subject to change without notice.

PK-PJ800

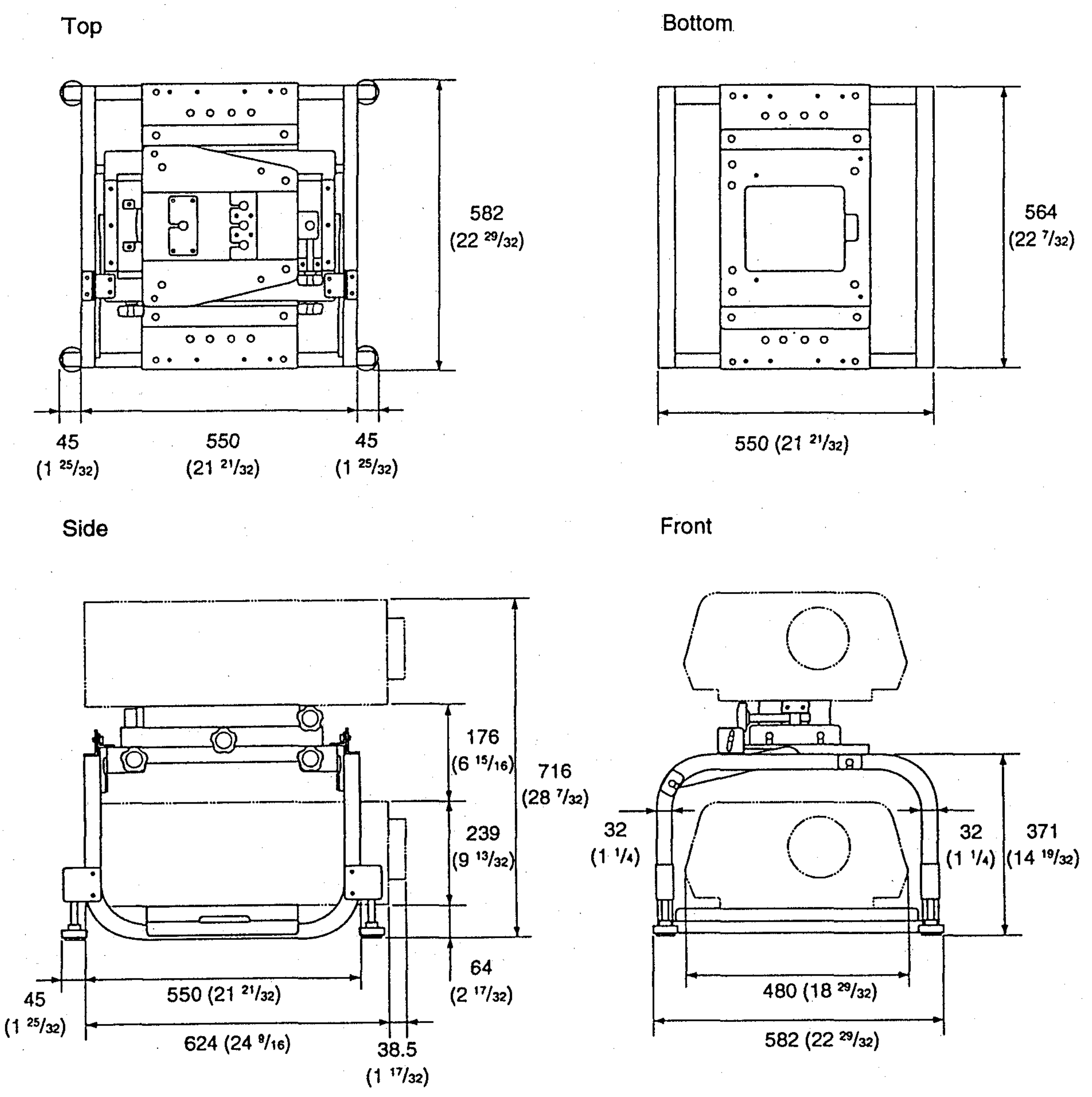
Lamp	400 W, metal halide lamp
Dimensions	Approx. 140 × 147 × 142 mm (w/d/h) (5 5/8 × 5 7/8 × 5 5/8 inches)
Mass	Approx. 760 g (1 lb 11 oz)

Specifications are subject to change without notice.

SU-PJ800

Design and specifications are subject to change without notice.

Dimensions


Top
582
(22 29/32)
45
(1 25/32)
550
(21 21/32)
45
(1 25/32)
Bottom
564
(22 7/32)
550 (21 21/32)
Side
176
(6 15/16)
716
(28 7/32)
239
(9 13/32)
64
(2 17/32)
45
(1 25/32)
550 (21 21/32)
624 (24 9/16)
38.5
(1 17/32)
Front
32
(1 1/4)
32
(1 1/4)
371
(14 19/32)
480 (18 29/32)
582 (22 29/32)

Unit : mm (inches)

Mass	Approx. 24 kg (52 lb 15 oz)
Loading	Maximum 30 kg × 2 (66 lb 2 oz × 2)
Accessory	Bolts M8 × 20 (8) The eight spare bolts M8 × 20 are attached on the lower tray of the projector stand. Use these spare bolts if necessary.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
   Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

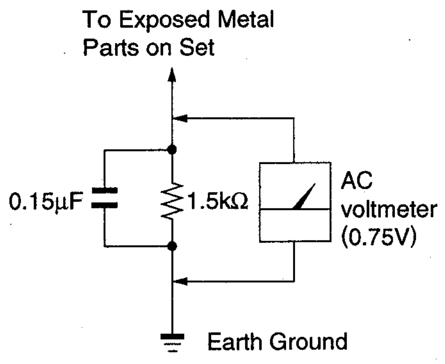


Fig. A. Using an AC voltmeter to check AC leakage.

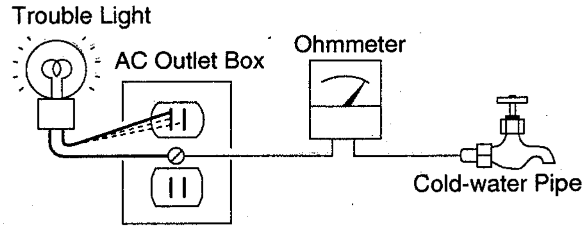


Fig. B. Checking for earth ground.

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- SU-PJ800 264

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

HIGH TEMPERATURE OF THE LAMP

THE TEMPERATURE AROUND THE LAMP BECAME AWFULLY HIGH WHILE THE POWER ON OR IMMEDIATELY AFTER POWER OFF.
HANDLE WITH CARE TO NOT SCALED.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual,Installation Manual. The page numbers of the Operating Instruction Manual,Installation Manual remain as in the manual.

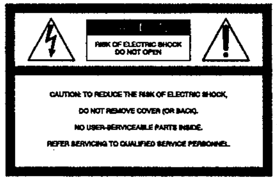
1-1. VPL-S800U/S800M (OPERATING INSTRUCTION)

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.


RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For customers in Canada
This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

For the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified Sony personnel before operating it further.
- Unplug the unit from the wall outlet or set the MAIN POWER switch to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.

On installation

- When the projector is mounted on the ceiling, the Sony PSS-800 Projector Suspension Support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 30 cm (11 7/8 inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that the temperature near the installation location is not excessive.
- Install the projector on the floor or ceiling. Any other installation causes a mulfunction such as color irregularity or shortening lamp life.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

- After turning off the power, the cooling fan runs for about two minutes while the POWER indicator flashes in green. The indicator flashes quickly for the first minute. During that time, you will not be able to turn the power back on with the POWER ON key.
- Do not press the MAIN POWER switch while the fan is still running.

Caution
The projector is equipped with ventilation holes (intake) at the bottom/right side and ventilation holes (exhaust) at the front/left side on the rear. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Features

High brightness, high picture quality

- **High brightness**
  Adopting the 400 W, metal halide lamp and newly developed optical system allow high brightness (light output 700 of ANSI lumen) and excellent uniformity on the picture.
- **High resolution**
  By using three 1.3-inches S VGA[1] panels, this projector offers resolution of 832 × 624 pixels for RGB input and 600 horizontal TV lines for composite video input.
- **Superior color reproduction**
  The superior characteristics of the metal halide lamp and the optical design of the projector allow superior color reproduction.

Accepts various input signals

Adopting the scan converter allows this projector to detect various kinds of inputs automatically and to project suitable picutres, such as the video, component, VGA[2] signal, or horizontal frequencies of 15 to 65 kHz and vertical frequencies of 38 to120 Hz-RGB signal.

System expandability and versatility

The projector has the RS-422A interface connectors for communication. By combining the optional IFB series interface boards and signal interface switcher, VPL-S800U/M projection system can be greatly expanded. This projector also has an index function for using multiple projectors in one system.

Easy setup

- **Easy setup with external equipment**
  This projector automatically recognizes the input signal and selects an appropriate display mode from preset data held in the memory. You can get an optimum picture by simply connecting an equipment.
- **Flexible setup**
  The picture shift function allows you to install the projector in a wide range of positions, without the worry of keystone distortion (the picture going out of square). The power focus and power zoom functions also let you change the size of the projection screen without having to move the projector.
- **Twin-stack compatible**
  The brightness of the image can be doubled by stacking two projectors.

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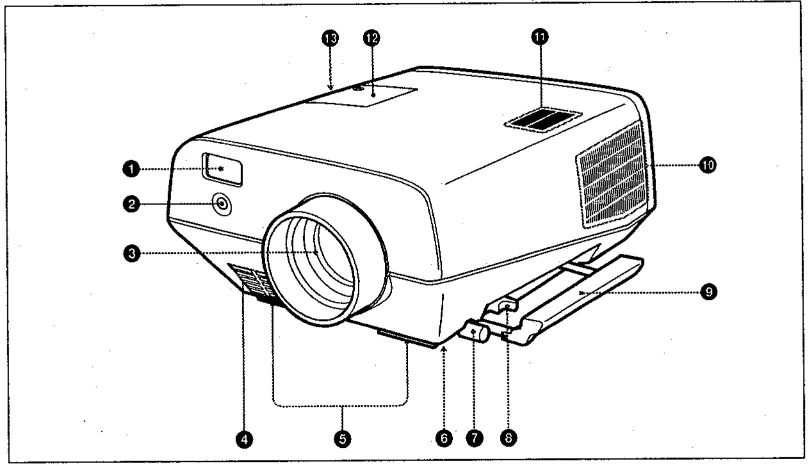
1) S VGA is a registered trademark of the International Business Machines Corporation, U.S.A.
2) VGA is a registered trademark of the International Business Machines Corporation, U.S.A.

Location and Function of Controls

Front



① Remote Commander pocket
Houses the supplied Remote Commander. When inserting the Remote Commander, make sure the infrared transmitter is facing forwards and push it until it clicks.
To take out the Remote Commander from the pocket, push it once and pull it out.

② Front remote control detector

③ Lens mount part
Remove the lens hole cover before attaching the optional lens.

④ Front ventilation holes (intake)
Do not place anything within the 50 cm (19 3/4 inches) range from these holes or block them.

⑤ Adjusters
Use the adjusters to keep the projector level if it is installed on an uneven surface.

⑥ Bottom ventilation holes (exhaust)
Do not block the holes.

⑦ Adjuster screw
Adjusts the height of the adjuster.

⑧ Handle lever
Use the lever for putting away the carrying handle.

⑨ Carrying handle
Pull out the handle for carrying the projector.

⑩ Right side ventilation holes (exhaust)
Do not block the holes.

⑪ Speaker

⑫ Lamp cover

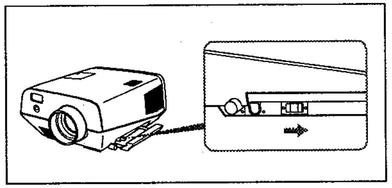
⑬ Left side ventilation holes (intake)
Do not place anything within the 30 cm (11 7/8 inches) range from these holes or block them.

Notes

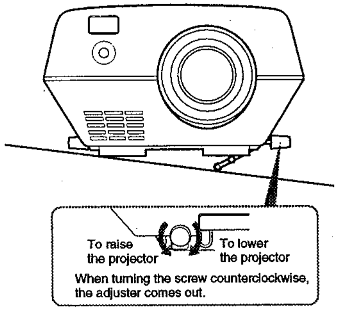
- Do not block the ventilation holes, or internal heat build-up may occur, causing fire or damage to the projector.
- Do not place anything near the ventilation holes or touch these holes as it may cause internal heat build-up.

Using the carrying handles

Pull out to use for carrying the projector. To put away the handle, slide the handle lever backward.



Using the adjusters


To raise the projector
To lower the projector
When turning the screw counterclockwise, the adjuster comes out.

1 While lifting the projector, turn the screw counterclockwise.
The adjuster comes out.

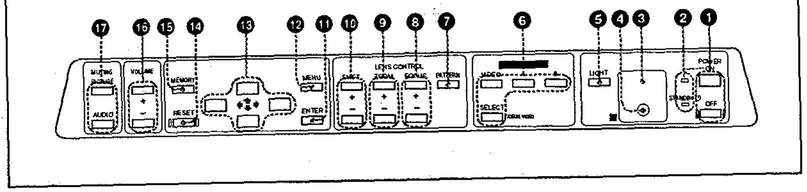
2 Turn the screw to adjust the height so that the projector becomes level.

Note

Be careful not to let the projector down on your fingers.

Location and Function of Controls

Control panel



① POWER keys
ON : Press to turn on the power when the projector is in the standby mode. The POWER indicator lights in green when the power is turned on.
OFF : Press to turn off the power.

② Indicators
POWER: Lights in green when the power is turned on.
Flashes in green while the cooling fan runs after turning off the power with the POWER OFF key. The fan runs for about two minutes after turning off the power.
The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on with the POWER ON key.

STANDBY⏻: Lights in red when the MAIN POWER switch at the rear of the projector is turned on.
Once in the standby mode, you can turn on and off the projector with the POWER ON/OFF keys on the Remote Commander or the control panel.

Note
When the MAIN POWER switch is turned off, there will be a slight delay before the STANDBY indicator goes off.

③ Error code display window
Displays the error codes.
For details on the error codes, see "Error codes" on page 47 (EN).

Note
If 88 remains lit, never open the lamp cover if the projector is installed on the ceiling.

④ Rear remote control detector

⑤ LIGHT key
Lights the back lighting for the keys on the control panel when the projector is turned on. Press again to turn off the back lighting. If you do not press any key on the Remote Commander or the control panel for 30 seconds, back lighting turns off automatically.

⑥ INPUT SELECT keys
Select the input signal.
VIDEO: Selects the video signal input from the VIDEO or S VIDEO connectors and the audio signal input from the AUDIO IN L/R jacks. To switch the S VIDEO and VIDEO connectors, use the SELECT key.
SELECT: Each time you press this key, the input video signal is switched between the VIDEO and S VIDEO connectors.
A: Selects the audio and video signals input from the INPUT A connectors.
B: Selects the signal input from the connectors on the optional interface board (other than IFB-40) which is installed in the INPUT B section.

⑦ PATTERN key
Displays a HATCH pattern on the screen for focus, zoom, and shift adjustments. Press again to clear the HATCH pattern.

(Continued)

⑧ FOCUS +/– keys
Adjusts the focus.
+ : Picture focuses forward.
– : Picture focuses farther back.

Note
If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the focus using the FOCUS keys. In such case, adjust the focus using the focus ring of the lens.

⑨ ZOOM +/– keys
Adjusts the zoom.
+ : Picture size is enlarged.
– : Picture size is reduced.

Note
If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the zoom.

⑩ SHIFT +/– keys
Adjusts the vertical position of the picture.
+ : Picture moves upward.
– : Picture moves downward.

⑪ ENTER key
Press to enter the settings of items in the menu system.

⑫ MENU key
Press to display the on-screen menu. Press again to clear the menu.

⑬ Arrow keys (↑/↓/←/→)
Used to move the on-screen cursor or to make various adjustments.

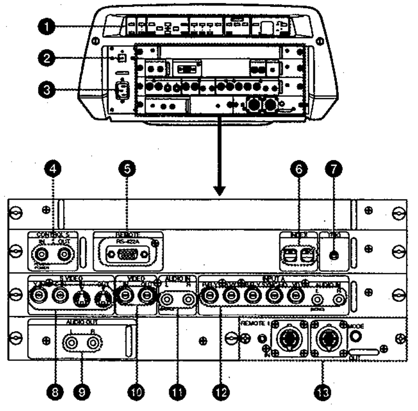
⑭ RESET key
Press to restore the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

⑮ MEMORY key
Stores various adjustment data into memory.

⑯ VOLUME +/– keys
Adjust the volume of the built-in speaker and output level of the AUDIO OUT jacks.
+ : Increases the volume.
– : Decreases the volume.

⑰ MUTING keys
Cuts off the picture or sound temporarily.
PICTURE: Press to cut off the picture. Press again to restore the picture.
AUDIO: Press to cut off the sound. Press again or press the VOLUME + key to restore the sound.

Rear



① Control panel
You can turn the control panel by 180 degrees when installing the projector upside-down, such as for ceiling installation. For details, consult with qualified Sony personnel.
For details on the control panel key arrangement, see "Control panel" on pages 9 (EN) and 10 (EN).

② MAIN POWER switch (▬ON/■OFF)
Turns the main power on and off.

③ AC IN socket
Connect the supplied AC Power cord.

④ CONTROL S IN/OUT jacks (stereo minijack)
Connect to the control S jacks of other Sony equipment.
- **CONTROL S IN/PLUG IN POWER (DC 5 V output) jack:** Connects to the CONTROL S OUT jack of the supplied Remote Commander when using as a wired Remote Commander. In this case, you do not need to install the batteries in the Remote Commander, since the power is supplied from this jack.
- **CONTROL S OUT jack:** Outputs the control S signal.

Note

When connecting the remote commander cable to the CONTROL S IN jack, the remote control detectors will not work.

⑤ REMOTE RS-422A connector (D-sub 9-pin, female)
Connect to a computer to operate the projector from a computer. This expands system capability via the RS-422A interface. Before using this connector, remove the red cap attached at the factory.

⑥ INDEX switches
Set the index number of the projector when using multiple projectors. You can set the numbers between "01" and "99". It is set to "01" at the factory.

Notes

- Do not set the index number to "00". If it is set to "00", the projector cannot be controlled with the Remote Commander.
- Do not set the index number to "9" if you use the supplied Remote Commander for controlling the projector.

(Continued)

⑦ TRIG (trigger output) jack (monaural minijack)
The signal is transmitted from this jack to the connected equipment whether the projector is on or off. (This is not a power source for external equipment.) A signal of approximately 5 V DC signal is output when the projector power is on. The signal is not output when the projector power is off.

⑧ S VIDEO connectors
Connect to external video equipment, such as a VCR. The OUT connector can be used as loop-through output via the Y/C IN or IN connectors.
- **Y IN/C IN (BNC-type):** Connect to the Y and C video outputs of the video equipment.
- **IN (mini DIN 4-pin):** Connects to the Y/C video output of the video equipment.
- **OUT (mini DIN 4-pin):** Used as loop-through output via the Y/C IN connectors or the IN connector.

Note

If you have video equipment connected to both the Y/C IN and IN connectors, the signal from the Y/C IN connectors are selected prior to the IN connector. When showing video connected to the IN connector, be sure not to connect any cable to the Y/C IN connectors.

⑨ AUDIO OUT L/R jacks (phono type)
Connect to external active speakers.
The volume of the speakers can be controlled by the VOLUME keys on the Remote Commander or the control panel.

⑩ VIDEO connectors (BNC-type)
Connect to external video equipment, such as a VCR. The VIDEO OUT connector can be used as loop-through output via the VIDEO IN connector.
- **IN:** Connects to the composite video output connector of the video equipment.
- **OUT:** Used as loop-through output of the VIDEO IN connector.

⑪ AUDIO IN L (MONO) /R jacks (phono type)
Connect to the audio output jacks of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

⑫ INPUT A connectors
- **RGB input connectors (R/R-Y, G/Y, B/B-Y, SYNC/HD, VD) (BNC-type):** Connect to such as the video outputs of a computer or a video camera. According to the connected equipment, the RGB or component (R-Y, Y, B-Y) signal is selected.
- **AUDIO IN L (MONO) /R jacks (phono type):** Connect to the audio output jacks of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

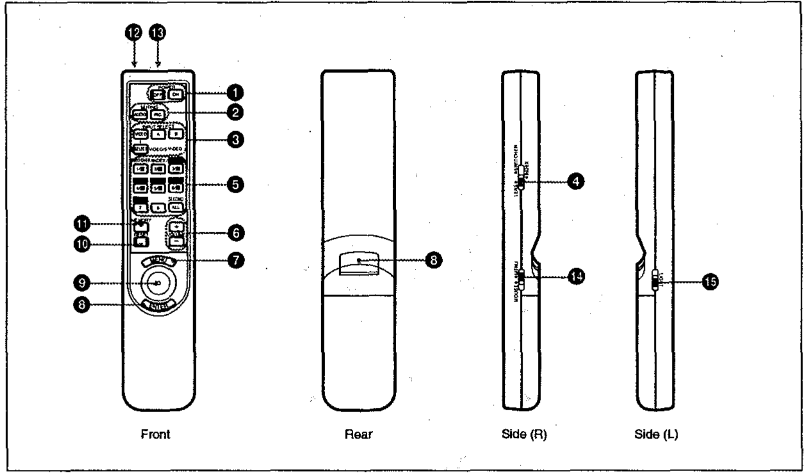
⑬ Signal interface board attachment part (INPUT B)
The IFB-40 Signal Interface Board is installed at the factory. Other optional signal interface boards can be attached to this section instead of the IFB-40.
For details on installing the interface boards, consult with qualified Sony personnel.
- **Indicator (red):** Lights up when the REMOTE 1 IN connector is selected.
- **REMOTE 1 IN connector (14-pin multi-connector):** Connect to the optional signal interface switcher. When using two projectors and this unit is used as the first one, connect to the REMOTE 1 OUT connector on the IFB-40 installed on the other projector.
- **REMOTE 1 OUT connector (14-pin multi-connector):** Connect to the REMOTE 1 IN connector on IFB-40 installed on another projector when using two projectors and this unit is used as second one.
- **MODE selector:** Turn the control switch of the MODE selector to the appropriate position according to the length of the cable connecting to the REMOTE 1 OUT connector.

Cable length	up to 2 m	up to 10 m	up to 25 m	up to 50 m
Type of cable	SIC-M-1 CCQ-2BRS	SIC-M-5 CCQ-5BRS CCQ-10BRS	SIC-M-15 CCQ-25BRS SIC-M-25	SIC-M-50 CCQ-50BRS
Position	1	2	3	4

Remote Commander

The Remote Commander can be used as a wireless or wired Remote Commander. The functions of the keys on the Remote Commander are the same as those on the control panel of the projector.
For details on control panel keys on the projector, see pages 9 (EN) and 10 (EN).

If you use the optional RM-PJ20/PJ21 Mouse Receiver, you can use the Remote Commander as a mouse for a connected computer.
For details, refer to the instruction manual supplied with the RM-PJ20/PJ21 Mouse Receiver.



① POWER ON/OFF keys

② MUTING PIC/AUDIO keys
The MUTING PIC key has the same function as the MUTING PICTURE key on the control panel.

③ INPUT SELECT/ VIDEO/A/B/SELECT keys

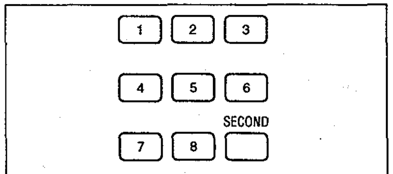
④ SWITCHER/INDEX/LENS selector
Switches the function of the SWITCHER/INDEX/LENS keys.
- **SWITCHER:** For designating the input from the optional switcher.
- **INDEX:** For selecting the projector to be operated when multiple projectors are used in one system.
- **LENS:** For adjsting the focus, zoom, shift, and displaying or clearing the HATCH pattern.

⑤ SWITCHER/INDEX/LENS keys
These keys function as follows depending on the position of the SWITCHER/INDEX/LENS selector.

When the SWITCHER/INDEX/LENS selector is set to SWITCHER position

Designate the input from the switcher when the optional signal interface switcher is connected. The SECOND key is used when two switchers are connected. To select the input from the second switcher, press a number key between 1 and 8 within two seconds after pressing the SECOND key.

(Continued)

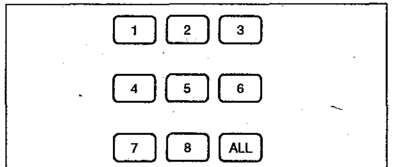


Designate the input from the switcher.

When the SWITCHER/INDEX/LENS selector is set to INDEX

Used to designate the projector to be operated when multiple projectors are used in one system.
You can designate the projector by pressing the index number which you have set on the projector.

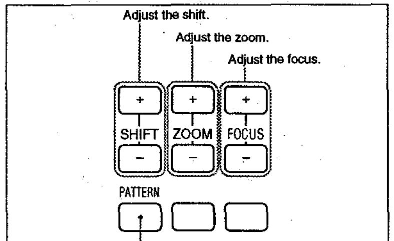
Example: When pressing [5] first and then [ENTER], the next operation will be effective only on the projector on which the index number has been set to "5". When operating all the projectors at the same time, press [ALL] first, then [ENTER].



Designate the projector to be operated.

When the SWITCHER/INDEX/LENS selector is set to LENS

Used to adjust focus, zoom, shift and to display or clear the HATCH pattern on the screen.



Adjust the shift.
Adjust the zoom.
Adjust the focus.
Displays or clears the HATCH pattern.

If the VPLL-FM20 or VPLL-FM30 optional lens is installed

- You cannot adjust the focus using the Remote Commander. In such case, adjust the focus using the focus ring of the lens.
- You cannot adjust the zoom.

⑥ VOLUME +/– keys

⑦ MENU key

⑧ ENTER keys

⑨ Joy stick
Used to move the on-screen cursor or to make various adjustments.

⑩ RESET key

⑪ MEMORY key

⑫ CONTROL S OUT jack (stereo minijack)
Connect to the CONTROL S IN jack on the projector when using the Remote Commander as a wired Remote Commander. In this case, you do not need to install the batteries since the power is supplied from the CONTROL S IN jack on the projector.

⑬ Infrared transmitter

⑭ MOUSE/MENU switch
Normally, set to MENU. Set to MOUSE when you operate the mouse function of a computer connected to the optional RM-PJ20/PJ21 Mouse Receiver from the Remote Commander.
When the MOUSE/MENU switch is set to MOUSE, the MENU, ENTER keys, and joy stick function as follows.

Key	Function	
	IBM PC/AT[1] compatible, NEC[2, 3]	Macintosh[4]
MENU	Left button	Mouse button
ENTER (front)	Right button	Mouse button
ENTER (rear)	Right button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

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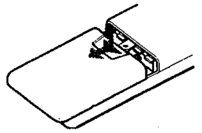
[1] IBM PC/AT is a registered trademark of International Business Machines Corporation, USA.
[2] NEC is a registered trademark of NEC Corporation.
[3] RM-PJ21 does not function with NEC computers.
[4] Macintosh is a registered trademark of Apple Computer, Inc.

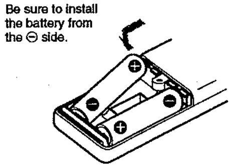
⑮ LIGHT switch
Lights the back lighting for the keys on the Remote Commander. Press again to turn off the back lighting. If you do not press any key for 30 seconds, back lighting turns off automatically.

Battery installation

1 Push and slide to open the lid.



2 Install the two size AA (R6) batteries (supplied) with the correct polarity.


Be sure to install
the battery from
the ⊖ side.

3 Replace the lid.

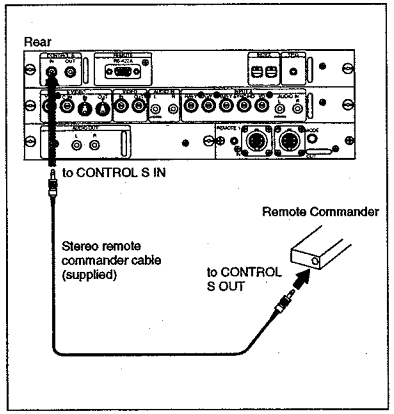
Notes on batteries

- Be careful that the battery orientation is correct when inserting batteries.
- Do not mix old battery with new one, or different types of batteries.
- If you do not intend to use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If a battery has leaked, remove the batteries, wipe the battery compartment dry and replace the batteries with new ones.

Notes on wireless Remote Commander operation

- Be sure that there is nothing to obstruct the infrared beam between the Remote Commander and the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector, the wider the angle within which the commander can control the projector.
- The remote control detectors on the projector do not operate when connecting the remote commander cable to the CONTROL S IN jack. If you wish to use the Remote Commander as a wireless Remote Commander, be sure to remove the remote commander cable from both the Remote Commander and the projector.

To connect the Remote Commander to the projector

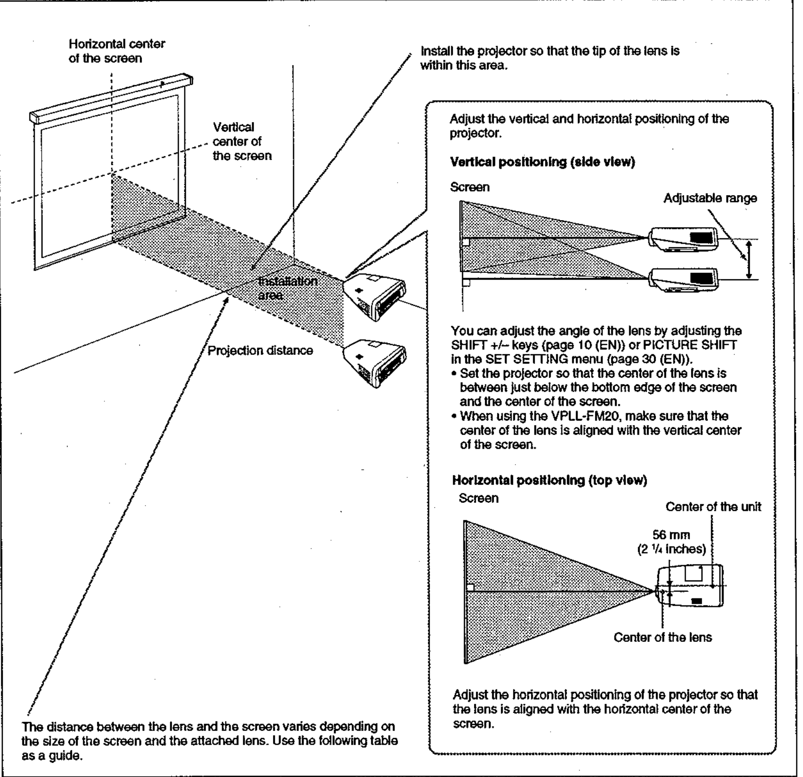

Rear
to CONTROL S IN
Remote Commander
Stereo remote
commander cable
(supplied)
to CONTROL
S OUT

Note on wired Remote Commander operation using the supplied stereo remote commander cable

If the MOUSE/MENU switch is set to MENU to operate the projector, you do not need to install the batteries since the power is supplied from the CONTROL S IN jack on the projector. In this case, the batteries are not consumed.

Installing the Projector

This section describes the installation arrangements for installing the projector on a table. For ceiling installation, consult with qualified Sony personnel (see page 38 (EN)).


Horizontal center
of the screen
Vertical
center of
the screen
Installation
area
Projection distance
Vertical positioning (side view)
Screen
Adjustable range
Horizontal positioning (top view)
Screen
Center of the unit
56 mm
(2 1/4 inches)
Center of the lens

Install the projector so that the tip of the lens is within this area.

Adjust the vertical and horizontal positioning of the projector.

You can adjust the angle of the lens by adjusting the SHIFT +/– keys (page 10 (EN)) or PICTURE SHIFT in the SET SETTING menu (page 30 (EN)).
- Set the projector so that the center of the lens is between just below the bottom edge of the screen and the center of the screen.
- When using the VPLL-FM20, make sure that the center of the lens is aligned with the vertical center of the screen.

Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.

The distance between the lens and the screen varies depending on the size of the screen and the attached lens. Use the following table as a guide.

Note
When projecting VGA signal, Macintosh 13-inch mode signal, or S VGA signal, the projection distance changes according to the setting of SCAN CONV in the INPUT SETTING menu.
For details, see page 34 (EN).

When using the VPLL-FM20 Fixed short focus lens

Unit: m (feet)

Screen size (inches)	50	80	100	120	150	180	200
Distance	0.9 (2.8)	1.4 (4.7)	1.8 (5.9)	2.2 (7.1)	2.7 (8.9)	3.3 (10.7)	3.6 (11.9)

For detailed information on installation mesurements, see page 36 (EN).

When using the VPLL-FM30 Fixed short focus lens

Unit: m (feet)

Screen size (inches)	40	60	80	100	120	150	180	200	250	290
Distance	1.1 (3.5)	1.7 (5.4)	2.2 (7.3)	2.8 (9.2)	3.4 (11)	4.2 (13.8)	5.1 (16.6)	5.6 (18.5)	7.1 (23.2)	8.2 (26.9)

For detailed information on installation mesurements, see page 36 (EN).

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: m (feet)

Screen size (inches)		40	80	100	120	150	180	200	250	300
Distance	Minimum	1.5 (4.8)	3.0 (10)	3.8 (12.5)	4.6 (15.1)	5.8 (18.9)	7.0 (22.8)	7.7 (25.4)	9.7 (31.8)	11.6 (38.2)
	Maximum	2.2 (7.2)	4.5 (14.6)	5.6 (18.3)	6.7 (22)	8.4 (27.6)	10.1 (33.2)	11.3 (37)	14.1 (46.2)	16.9 (55.5)

For detailed information on installation mesurements, see page 37 (EN).

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: m (feet)

Screen size (inches)		80	100	120	150	180	200	250	300
Distance	Minimum	4.4 (14.3)	5.5 (18)	6.6 (21.8)	8.3 (27.3)	10.0 (32.9)	11.2 (36.6)	14.0 (45.9)	16.8 (55.2)
	Maximum	8.3 (27.4)	10.4 (34.2)	12.5 (41)	15.7 (51.3)	18.8 (61.6)	20.9 (68.5)	26.1 (85.7)	31.3 (102.8)

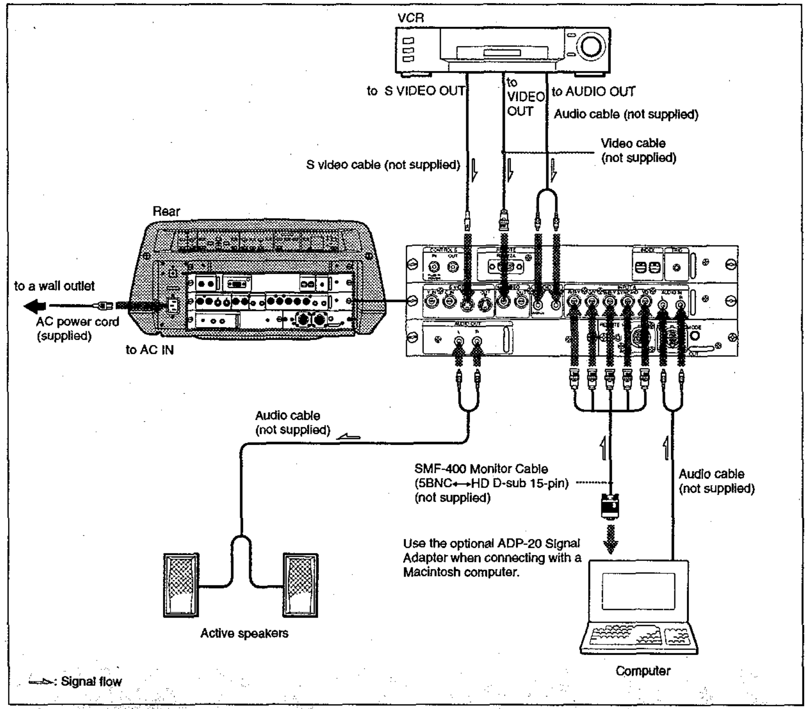
For detailed information on installation mesurements, see page 37 (EN).

Connecting with a Computer or a VCR

This section describes how to connect the projector with a computer, VCR, and external active speakers. For details on how to connect other equipment, see pages 41 (EN) to 44 (EN).
Also refer to the instruction manuals of the equipment to be connected.

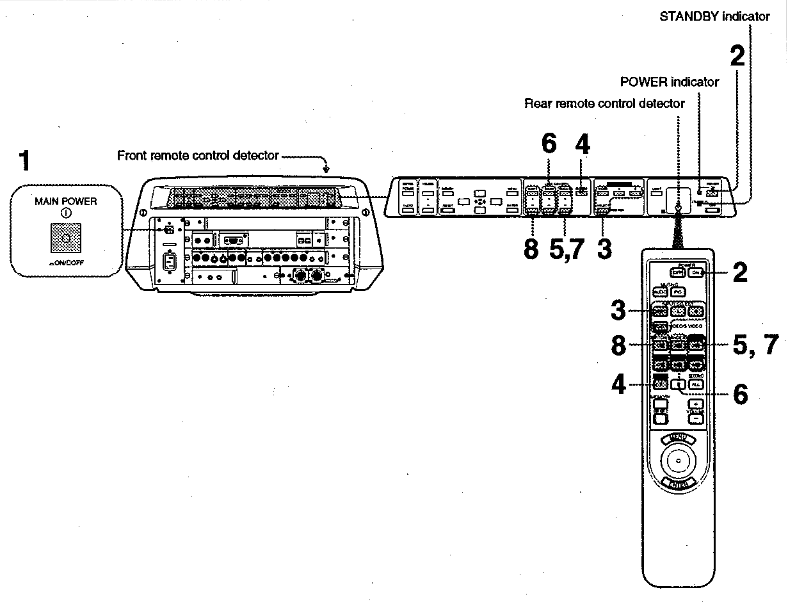
When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.


VCR
to S VIDEO OUT
to VIDEO OUT
to AUDIO OUT
Audio cable (not supplied)
Video cable (not supplied)
S video cable (not supplied)
Rear
to a wall outlet
AC power cord (supplied)
to AC IN
Audio cable (not supplied)
SMF-400 Monitor Cable (5BNC↔HD D-sub 15-pin) (not supplied)
Audio cable (not supplied)
Use the optional ADP-20 Signal Adapter when connecting with a Macintosh computer.
Active speakers
Computer
: Signal flow

Note
Set the INPUT-A item in the SET SETTING menu to RGB.
For details, see page 30 (EN).

Projecting



1 Press the MAIN POWER switch on the rear of the projector (▬ ON).

The STANDBY indicator lights in red and the projector goes into the standby mode.

2 Press the POWER ON key on the Remote Commander or the control panel.

The POWER indicator lights in green.

3 Switch on equipment connected to the projector. Press the INPUT SELECT keys on the Remote Commander or the control panel to select the input source.

(Continued)

VIDEO: Selects the video signal input from the VIDEO or S VIDEO connectors and the audio signal input from the AUDIO IN L/R jacks. To switch the VIDEO or S VIDEO connectors, use the SELECT key.

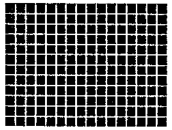
SELECT: Each time you press this key, the input signal is switched between VIDEO and S VIDEO.

A: Selects the audio and video signals input from the INPUT A connectors.

B: Selects the signal input from the connectors on the optional interface board (other than IFB-40) which is installed in the INPUT B section.

When you input the signal from equipment connected to the optional signal interface switcher, set the SWITCHER/INDEX/LENS selector on the Remote Commander to the SWITCHER position and designate the channel number by pressing the number keys.

4 Set the SWITCHER/INDEX/LENS selector to the LENS position, and then press the PATTERN key on the Remote Commander or the control panel to display the HATCH pattern.



Press the PATTERN key again to clear the HATCH pattern.

5 Press the FOCUS +/– key on the Remote Commander or the control panel to adjust the focus.

"FOCUS" appears on the screen during adjustment.

Note

If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the focus using the FOCUS keys. In such case, adjust the focus using the focus ring of the lens.

6 Press the ZOOM +/– key on the Remote Commander or the control panel to adjust the zoom.

"ZOOM" appears on the screen during adjustment.

Note

If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the zoom.

7 Press the FOCUS +/– key on the Remote Commander or the control panel again to adjust the focus.

"FOCUS" appears on the screen during adjustment.

8 Press the SHIFT +/– key on the Remote Commander or the control panel to adjust the vertical position of the picture.

"PICTURE SHIFT" appears on the screen during adjustment.

To	Press
Adjust the volume	the VOLUME +/– keys.
Cut off the sound	the AUDIO MUTING key (also cut off the signal output from the AUDIO OUT jacks.) To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key (PIC MUTING key on the Remote Commander). To restore the picture, press the PICTURE MUTING key again.

Notes

- Do not look into the lens when the projector lamp is on.
- When you adjust the focus, zoom, and shift with the Remote Commander, be sure to set the SWITCHER/INDEX/LENS selector to the LENS position.

To turn off the power

1 Press the POWER OFF key on the Remote Commander or the control panel.

The POWER indicator flashes in green and the cooling fan keeps running for about two minutes to reduce the internal heat. The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on. After about one minute, you can turn on the power with the POWER ON key.

2 Wait until the fan stops running and the STANDBY indicator lights in red; then press the MAIN POWER switch to turn off the main power (■ OFF).

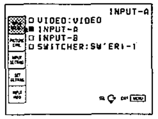
Notes

- **Do not press the MAIN POWER switch while the fan is still running; the fan will stop while the lamp is still hot, leading to breakdown.**
- **To make the lamp life last longer, do not turn off the power at least for about 10 minutes after turning on the power.**

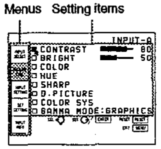
Using the MENU

The projector is equipped with an on-screen menu for making various adjustments and settings. Adjustable items are displayed in green.
To select the language used in the menu, see page 31 (EN).

1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.



2 Use the ↑ or the ↓ key on the control panel to select a menu, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select a menu, then move it to the right or press the ENTER key.
The selected menu appears.



3 Make setting or adjustment on an item.
For details on setting individual items, see the relevant menu pages.

To clear the menu display

Press the MENU key. The menu display also disappears automatically if no key is pressed for one minute.

To reset settings that have been adjusted

Press the RESET key. "RESET complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.

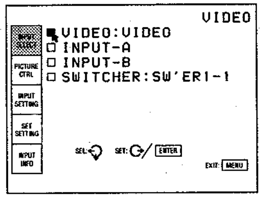
Items that can be reset are as follows:
"CONTRAST", "BRIGHT", "COLOR", "HUE", "SHARP", "DOT PHASE", "SIZE", and "SHIFT".

About the memory of the settings

The settings are automatically stored in the projector memory.

The INPUT SELECT Menu

The INPUT SELECT menu is used for selecting the input signal.

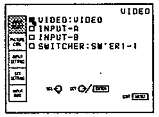

VIDEO
VIDEO:VIDEO
☐ INPUT-A
☐ INPUT-B
☐ SWITCHER:SW'ER1-1

Operation

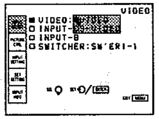
Use the ♦ or the ♦ key on the control panel to select the input, then press the ENTER key.
On the Remote Commander, move the joy stick up or down to select the input, press the ENTER key.

VIDEO

Selects the video signal input from the VIDEO or S VIDEO connectors and the audio signal input from the AUDIO IN L/R jacks.


VIDEO
VIDEO:VIDEO
☐ INPUT-A
☐ INPUT-B
☐ SWITCHER:SW'ER1-1

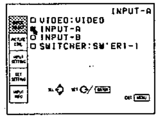
Press the ➡ or the ENTER key so that the following pop-up menu appears.


VIDEO
■ VIDEO:
☐ INPUT-
☐ INPUT-B
☐ SWITCHER:SW'ER1-1

Use the ♦ or the ♦ key on the control panel to select the input, then press the ⬅ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the input, then move the joy stick to the left, or press the ENTER key.
If you select S-VIDEO when you have video equipment connected to both the Y IN/C IN and IN connectors, the signals from the Y IN/C IN connectors are selected.

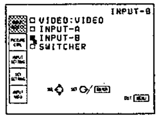
INPUT-A

Selects audio and video signals input from the INPUT A connectors.


INPUT-A
☐ VIDEO:VIDEO
INPUT-A
☐ INPUT-B
☐ SWITCHER:SW'ER1-1

INPUT-B

Selects the signal input from the connectors on the optional interface board (other than IFB-40) which is installed in the INPUT B section.

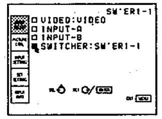

INPUT-B
☐ VIDEO:VIDEO
☐ INPUT-A
INPUT-B
☐ SWITCHER

Note

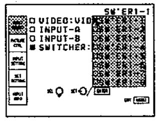
This item is only available when the optional interface board other than IFB-40 is installed.

SWITCHER

Selects the signal from equipment connected to the optional signal interface switcher.


SW'ER1-1
☐ VIDEO:VIDEO
☐ INPUT-A
☐ INPUT-B
SWITCHER:SW'ER1-1

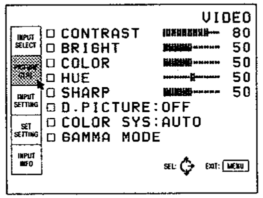
Press the ➡ or the ENTER key so that the following pop-up menu appears.


SW'ER1-1
☐ VIDEO:VID
☐ INPUT-A
☐ INPUT-B
■ SWITCHER:

Use the ♦ or the ♦ key on the control panel to select the input, then press the ⬅ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the input, then move the joy stick to the left, or press the ENTER key.

The PICTURE CTRL Menu

The PICTURE CTRL menu is used for adjusting the picture. Adjustable items are displayed in green.


VIDEO
☐ CONTRAST 80
☐ BRIGHT 50
☐ COLOR 50
☐ HUE 50
☐ SHARP 50
☐ D.PICTURE:OFF
☐ COLOR SYS:AUTO
☐ GAMMA MODE

Operation

1. Select an item

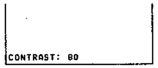
Use the ♦ or the ♦ key on the control panel to select the item, then press the ➡ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ♦ or the ➡ key.
  On the Remote Commander, move the joy stick up or to the right.
  To decrease the number, press the ♦ or the ⬅ key.
  On the Remote Commander, move the joy stick down or to the left.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ♦ or the ♦ key on the control panel to change the setting, then press the ⬅ or the ENTER key.
  On the Remote Commander, move the joy stick up or down to change the setting, then move it to the left or press the ENTER key.

CONTRAST

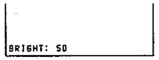
Adjusts the picture contrast.


CONTRAST: 80

The higher the setting, the greater the contrast.
The lower the setting, the lower the contrast.

BRIGHT

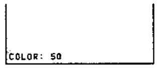
Adjusts the picture brightness.


BRIGHT: 50

The higher the setting, the brighter the picture.
The lower the setting, the darker the picture.

COLOR

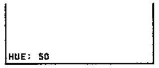
Adjusts color intensity.


COLOR: 50

The higher the setting, the greater the intensity.
The lower the setting, the lower the intensity.

HUE

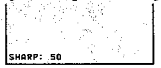
Adjusts skin tones.


HUE: 50

At high settings, the picture becomes greenish.
At low settings, the picture becomes purplish.

SHARP

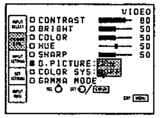
Adjusts the picture sharpness.


SHARP: 50

The higher the setting, the sharper the picture.
The lower the setting, the softer the picture.

D. (Dynamic) PICTURE

Emphasizes the black color.



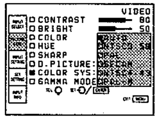
```
                      VIDEO
□ CONTRAST              80
□ BRIGHT                50
□ COLOR                 50
□ HUE                   50
□ SHARP                 50
■ D.PICTURE:
□ COLOR SYS:
□ GAMMA MODE
```

ON: Emphasizes the black color to produce a bolder "dynamic" picture.

OFF: Reproduces the dark portions of the picture accurately, in accordance with the source signal.

COLOR SYS (System)

Selects the color system of the input signal.

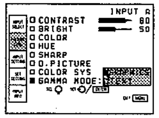


```
                      VIDEO
□ CONTRAST              80
□ BRIGHT                50
□ COLOR
□ HUE
□ SHARP
□ D.PICTURE:
■ COLOR SYS:
□ GAMMA MODE
```

Normally, set to AUTO.
If the picture is distorted or colorless, select the color system according to the input signal.

GAMMA MODE

Selects a gamma correction curve.



```
                    INPUT A
□ CONTRAST              80
□ BRIGHT                50
□ COLOR
□ HUE
□ SHARP
□ D.PICTURE
□ COLOR SYS
■ GAMMA MODE:
```

GRAPHICS: Improves the reproduction of half tones. Photos can be reproduced in natural tones.

TEXT: Contrasts black and white. Suitable for images that contains lots of text.

Items that cannot be adjusted depending on the types of input signal

Item	Cannot be adjusted with
COLOR	RGB signal, black and white signal
HUE	Input signal other than NTSC[1] 3.58/4.43
SHARP	RGB signal
D. PICTURE	RGB signal
COLOR SYS	RGB signal, component signal
GAMMA MODE	Input signal other than RGB, 15k RGB signal

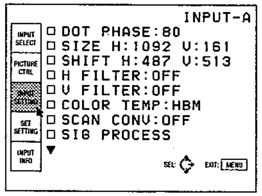
---

[1] NTSC4.43 is the color system used when playing back a video recorded on NTSC on a NTSC4.43 system VCR.

The INPUT SETTING Menu

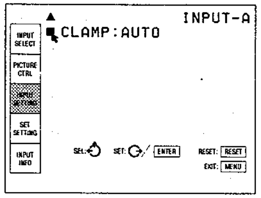
The INPUT SETTING menu is used to adjust the input signal. Adjustable items are displayed in green.

<page 1>



```
                    INPUT-A
□ DOT PHASE:80
□ SIZE H:1092 V:161
□ SHIFT H:487 V:513
□ H FILTER:OFF
□ V FILTER:OFF
□ COLOR TEMP:HBM
□ SCAN CONV:OFF
□ SIG PROCESS
▼
```

<page 2>



```
▲                   INPUT-A
■ CLAMP:AUTO
```

The INPUT SETTING menu consists of two pages depending on the types of the input signals.
To change the page, press the ↓ or the ↑ key until the page changes when selecting an item.
On the Remote Commander, move the joy stick up or down until the previous or next page changes when selecting an item.

Operation

1. Select an item

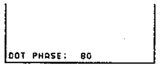
Use the ↑ or ↓ key on the control panel to select the item, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or the → key.
  On the Remote Commander, move the joy stick up or to the right.
  To decrease the number, press the ↓ or the ← key.
  On the Remote Commander, move the joy stick down or to the left.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or the ↓ key to change the setting and press the ← or the ENTER key.
  On the Remote Commander, move the joy stick up or down to change the setting, then move to the left or press the ENTER key.
  The original screen is restored.

DOT PHASE

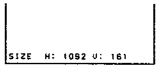
Adjusts the dot phase of the LCD panel and the signal when H FILTER is set to OFF.
Adjust the value to obtain the clearest picture.



```
DOT PHASE: 80
```

SIZE

Adjusts the horizontal size of pictures.

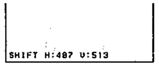


```
SIZE H: 1092 V: 161
```

As the setting for H increases, the horizontal size of the picture becomes larger, and as the setting decreases, the size becomes smaller.
As the setting for V increases, the vertical size of the picture becomes larger, and as the setting decreases, the size becomes smaller.
Use the ← or the → key to adjust the horizontal size and the ↑ or the ↓ key for the vertical size.

SHIFT

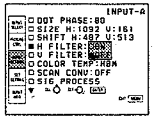
Adjusts the position of the picture.


SHIFT H:487 V:513

H adjusts the horizontal position of the picture.
V adjusts the vertical position of the picture.
As the setting for H increases, the picture moves to the right, and as the setting decreases, the picture moves to the left.
As the setting for V increases, the picture moves up, and as the setting decreases, the picture moves down.
Use the ← or the → key to adjust the horizontal position and the ↑ or the ↓ key for the vertical position.

H FILTER

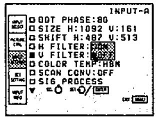
Corrects the vertical bands that appear on the picture.


INPUT-A
DOT PHASE:80
SIZE H:1092 V:161
SHIFT H:487 V:513
H FILTER:
V FILTER:
COLOR TEMP:HBM
SCAN CONV:OFF
SIG PROCESS

These vertical bands may occur when an RGB signal which horizontal resolution is other than 832 or 800 dots is input. In such cases, set to ON. The picture will loose some clarity, but the vertical bands will be reduced. Set to OFF to associate a dot of the input signal with a pixel of the LCD.

V FILTER

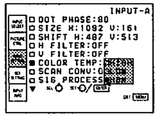
Corrects the horizontal bands that appear on the picture.


INPUT-A
DOT PHASE:80
SIZE H:1092 V:161
SHIFT H:487 V:513
H FILTER:
V FILTER:
COLOR TEMP:HBM
SCAN CONV:OFF
SIG PROCESS

These horizontal bands may occur when an RGB signal which vertical resolution is other than 624 or 600 dots is input. In such cases, set to ON. The picture will loose some clarity, but the horizontal bands will be reduced. Set to OFF to associate a dot of the input signal with a pixel of the LCD.

COLOR TEMP

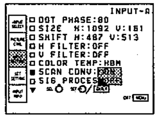
Adjusts the color temperature.


INPUT-A
DOT PHASE:80
SIZE H:1092 V:161
SHIFT H:487 V:513
H FILTER:OFF
V FILTER:OFF
COLOR TEMP:
SCAN CONV:
SIG PROCESS

HIGH: Makes the white color bluish.
LOW: Makes the white color reddish.
HBM (High Brightness Mode): Reproduces a picture with high brightness.

SCAN CONV (Scan converter)

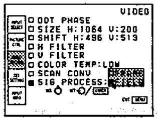
Converts the signal to display the picture according to the screen size.


INPUT-A
DOT PHASE:80
SIZE H:1092 V:161
SHIFT H:487 V:513
H FILTER:OFF
V FILTER:OFF
COLOR TEMP:HBM
SCAN CONV:
SIG PROCESS

ON: Displays the picture according to the screen size. The picture will lose some clarity.
OFF: Displays the picture while matching one pixel of input picture element to that of the LCD. The picture will be clear but the picture size will be smaller.

SIG PROCESS

Selects the conversion format from the frame format or field format when the signal is input.

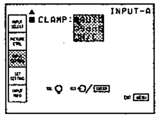

VIDEO
DOT PHASE
SIZE H:1064 V:200
SHIFT H:496 V:513
H FILTER
V FILTER
COLOR TEMP:LOW
SCAN CONV
SIG PROCESS:

FRAME: Selects the frame format. This position is suitable for a still picture, such as when using a document camera.
FIELD: Selects the field format. This position is suitable for a moving picture.

(Continued)

CLAMP

Corrects the luminance of the picture.


INPUT-A
CLAMP:

CLAMP is used as a standard for setting the black level of a picture correctly. The standard position of the clamp depends on the kind of sync signal being used. Normally, the projector CPU judges the signal and sets the position automatically. However, the CPU can misjudge the signal because of noise. If the luminance of the picture seems to be incorrect (too dark, the black color is too light, or the luminance is unstable) the clamp position may need to be changed.

AUTO: Automatic setting mode. Normally set to this position.
SonG: Set to this position if the black seems too light or greenish.
H/C: Set to this position if the picture is too dark or luminance is unstable.

Note

If the luminance is still incorrect after changing the clamp setting, check the input signal and the connections.

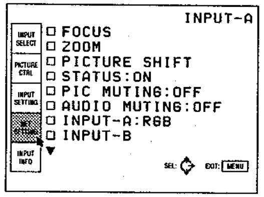
The items that cannot be adjusted depending on the types of input signal

Item	Cannot be adjusted with
DOT PHASE	Signal input from VIDEO IN connectors, component input signal (15k), 15k RGB signal input
H FILTER	Signal input from VIDEO IN connectors, component input signal (15k), 15k RGB signal input
V FILTER	Signal input from VIDEO IN connectors, component input signal (15k), 15k RGB signal input (These signals can be adjusted when SIG PROCESS is set to FRAME.)
SCAN CONV	Signal input other than preset memory numbers 5 to 7, 10 to 17, 25, 26, 31
SIG PROCESS	RGB signal input other than 15 kHz one
CLAMP	Signal input from VIDEO IN connectors, component input signal (15k)

The SET SETTING Menu

The SET SETTING menu is used for changing the set settings of the projector. Adjustable items are displayed in green.

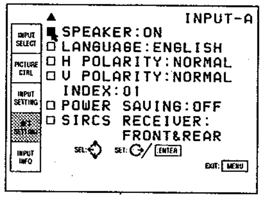
<page 1>



INPUT-A

- ☐ FOCUS
- ☐ ZOOM
- ☐ PICTURE SHIFT
- ☐ STATUS:ON
- ☐ PIC MUTING:OFF
- ☐ AUDIO MUTING:OFF
- ☐ INPUT-A:RGB
- ☐ INPUT-B

<page 2>



INPUT-A

- ■ SPEAKER:ON
- ☐ LANGUAGE:ENGLISH
- ☐ H POLARITY:NORMAL
- ☐ V POLARITY:NORMAL
  INDEX:01
- ☐ POWER SAVING:OFF
- ☐ SIRCS RECEIVER:
  FRONT&REAR

The SET SETTING menu consists of two pages.
To change the page, press the ↓ or the ↑ key until the page changes when selecting an item.
On the Remote Commander, move the joy stick up or down until the previous or next page appears when selecting an item.

Operation

1. Select an item

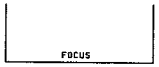
Use the ↑ or the ↓ key on the control panel to select the item, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or the → key.
  On the Remote Commander, move the joy stick up or to the right.
  To decrease the number, press the ↓ or the ← key.
  On the Remote Commander, move the joy stick down or to the left.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or the ↓ key to change the setting, then press the ← or the ENTER key.
  On the Remote Commander, move the joy stick up or down to change the setting and move it to the left or press the ENTER key to restore the original screen.

FOCUS

Adjusts the focus.



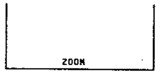
Adjust the focus with the ↑, ↓ or the →, ← key.
On the Remote Commander, move the joy stick up, down or to the right, left.
When you display the HATCH pattern on the screen, press the PATTERN key on the Remote Commander or the control panel.

Note

If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the focus on the menu.

ZOOM

Adjusts the zoom.



To zoom in, press the ↑ or the → key.
On the Remote Commander, move the joy stick up or to the right.
To zoom out, press the ↓ or the ← key.
On the Remote Commander, move the joy stick down or to the left.
When you display the HATCH pattern on the screen, press the PATTERN key on the Remote Commander or the control panel.

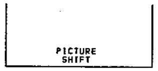
Note

If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the zoom.

(Continued)

PICTURE SHIFT

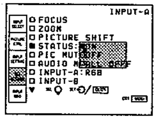
Adjusts the vertical position of the picture.



To move the picture up, press the ↑ or the → key.
On the Remote Commander, move the joy stick up or to the right.
To move the picture down, press the ↓ or the ← key.
On the Remote Commander, move the joy stick down or to the left.
When you display the HATCH pattern on the screen, press the PATTERN key on the Remote Commander or the control panel.

STATUS (on-screen display)

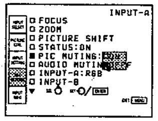
Sets up the on-screen display.



ON: Shows all of the on-screen displays.
OFF: Turns off the on-screen displays except for the menus, "NO INPUT," "PIC/AUDIO MUTING," and warning messages.
ALL OFF: Turns off all of the on-screen displays except for warning messages.

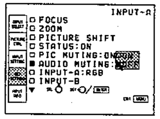
PIC MUTING

Set to ON to cut off the picture.
When set to ON, "PIC MUTING" appears on the screen.



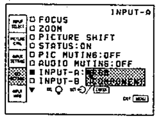
AUDIO MUTING

Set to ON to cut off the sound.
When set to ON, "AUDIO MUTING" appears on the screen.



INPUT-A

Selects the RGB or component signal input from the INPUT A connectors.

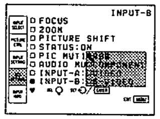


Note

If the INPUT-A setting is not correct, the color of the picture becomes strange or noisy.

INPUT-B

Selects the RGB, component, video or S-video signal input from the optional IFB-12 Interface Board when it is installed in the INPUT B section.

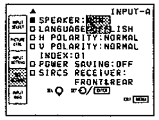


Notes

- If the INPUT-B setting is not correct, the color of the picture becomes strange or noisy.
- You cannot select the item when you have not installed the optional IFB-12 Interface Board in the projector.

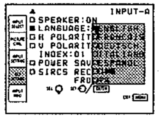
SPEAKER

Set to OFF to cut off the sound of the internal speaker. When set to OFF, "SPEAKER OFF" appears on the screen when you turn on the power.


INPUT-A
SPEAKER:
LANGUAGE:ENGLISH
H POLARITY:NORMAL
V POLARITY:NORMAL
INDEX:01
POWER SAVING:OFF
SIRCS RECEIVER:
FRONT&REAR
MENU

LANGUAGE

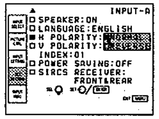
Selects the language used in the menu and on-screen displays.


INPUT-A
SPEAKER:ON
LANGUAGE:
H POLARIT
V POLARIT
INDEX:01
POWER SAV
SIRCS REC
MENU

Available languages are: English, French, German, Italian, Spanish, Japanese, and Chinese.

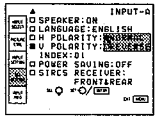
H (Horizontal) POLARITY

Set to REVERSE to reverse the horizontal orientation of the picture.


INPUT-A
SPEAKER:ON
LANGUAGE:ENGLISH
H POLARITY:
V POLARITY:
INDEX:01
POWER SAVING:OFF
SIRCS RECEIVER:
FRONT&REAR
MENU

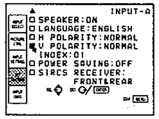
V (Vertical) POLARITY

Set to REVERSE to reverse the vertical orientation of the picture.


INPUT-A
SPEAKER:ON
LANGUAGE:ENGLISH
H POLARITY:
V POLARITY:
INDEX:01
POWER SAVING:OFF
SIRCS RECEIVER:
FRONT&REAR
MENU

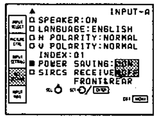
INDEX

Displays the index number set with the INDEX switches on the rear of the projector.


INPUT-A
SPEAKER:ON
LANGUAGE:ENGLISH
H POLARITY:NORMAL
V POLARITY:NORMAL
INDEX:01
POWER SAVING:OFF
SIRCS RECEIVER:
FRONT&REAR
MENU

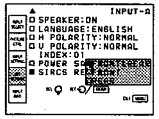
POWER SAVING

When set to ON, the projector goes into the power saving mode if no signal is input for about 10 minutes. To reduce the internal heat, the cooling fan keeps running for about two minutes. The power saving mode is canceled when a signal is input or whenever a key is pressed.


INPUT-A
SPEAKER:ON
LANGUAGE:ENGLISH
H POLARITY:NORMAL
V POLARITY:NORMAL
INDEX:01
POWER SAVING:
SIRCS RECEIVER:
FRONT&REAR
MENU

SIRCS RECEIVER

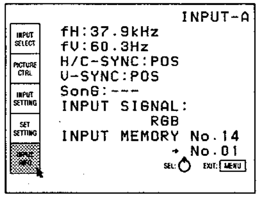
Selects the remote control detectors to be activated. Change the setting if the wireless Remote Commander does not work properly due to the influence of the fluorescent lamp.


INPUT-A
SPEAKER:ON
LANGUAGE:ENGLISH
H POLARITY:NORMAL
V POLARITY:NORMAL
INDEX:01
POWER S
SIRCS RE
MENU

FRONT & REAR: Activates both the front and rear detectors.
FRONT: Activates the front detector only.
REAR: Activates the rear detector only.

The INPUT INFO Menu

The INPUT INFO menu displays the information on a current input signal.


INPUT SELECT
PICTURE CTRL
INPUT SETTING
SET SETTING
INPUT INFO
SEL:
EXIT: MENU

```
                    INPUT-A
fH:37.9kHz
fV:60.3Hz
H/C-SYNC:POS
V-SYNC:POS
SonG:---
INPUT SIGNAL:
            RGB
INPUT MEMORY No.14
            → No.01
```

fH (Horizontal frequency)

Indicates the horizontal frequency of the input signal. This indication is only used as a reference, this is not absolute value.

fV (Vertical frequency)

Indicates the vertical frequency of the input signal. This indication is only used as a reference, this is not absolute value.

H/C (Horizontal/Composite)-SYNC

Indicates the polarity of the horizontal or the composite sync signal. When the picture is being projected using its sync signal, POS (NEG) is displayed in green. When the picture is being projected without using sync signal, POS (NEG) is displayed in white.
POS: The polarity of the sync signal is positive.
NEG: The polarity of the sync signal is negative.
— : No sync signal is input.

V (Vertical) – SYNC

Indicates the polarity of the vertical sync signal. When the picture is being projected using its sync signal, POS (NEG) is displayed in green. When the picture is being projected without using sync signal, POS (NEG) is displayed in white.
POS: The polarity of the sync signal is positive.
NEG: The polarity of the sync signal is negative.
— : No sync signal is input.

SonG

Indicates the polarity of the Sync on Green. When the picture is being projected using its sync signal, NEG is displayed in green. When the picture is being projected without using the sync signal, NEG is displayed in white.
NEG: The polarity of the sync signal is negative.
— : No sync signal is input.

INPUT SIGNAL

Displays the type of the current input signal.
NTSC 3.58: NTSC 3.58 input signal
PAL: PAL input signal
SECAM: SECAM input signal
NTSC 4.43: NTSC 4.43 input signal
PAL-M: PAL-M input signal
B/W: Black and white input signal
COMPONENT: Component input signal
RGB: RGB input signal
NTSC 3.58 S VIDEO: S video input signal based on NTSC 3.58
PAL S VIDEO: S video input signal based on PAL
SECAM S VIDEO: S video input signal based on SECAM
NTSC 4.43 S VIDEO: S video input signal based on NTSC 4.43
PAL-M S VIDEO: S video input signal based on PAL-M
B/W S VIDEO: Black and white S video input signal

INPUT MEMORY No.

The upper number indicates the memory number of the current input signal. The lower number indicates the user memory number.

Memory No.	Preset signal	fH(kHz)	fV(Hz)	Sync
1	Video 60 Hz	15.73	59.94	–
2	Video 50 Hz	15.625	50	–
3	15k RGB 60 Hz	15.73	59.94	Composite sync/ Sync on G
4	15k RGB 50 Hz	15.625	50	Composite sync/ Sync on G
5	VGA-1	31.468	70.086	H-pos V-neg
6	VGA-2	31.468	70.086	H-neg V-pos
7	VGA-3	31.468	59.94	H-neg V-neg
8	8514A/XGA	35.524	86.95	H-pos V-pos
9	XGA2-3	61.08	75.781	H-pos V-pos
10	VESA[a] VGA 72 Hz	37.86	72.809	H-neg V-neg
11	VESA VGA 75 Hz	37.5	75	H-neg V-neg
12	VESA VGA 85 Hz	43.269	85.008	H-neg V-neg
13	S-VGA 56 Hz	35.156	56.25	H-neg V-neg
14	S-VGA 60 Hz	37.879	60.32	H-pos V-pos
15	S-VGA 72 Hz	48.077	72.188	H-pos V-pos
16	S-VGA 75 Hz	46.875	75	H-pos V-pos
17	S-VGA 85 Hz	53.675	85.061	H-pos V-pos
18	VESA XGA 60 Hz	48.363	60	H-neg V-neg
19	VESA XGA 70 Hz	56.476	70.069	H-neg V-neg
20	VESA XGA 75 Hz	60.023	75.029	H-pos V-pos
21	VESA XGA 85 Hz	68.677	84.998	H-pos V-pos
22	VESA 1280*1024 60 Hz	63.981	60.02	H-pos V-pos
23	PS-55-1	46.474	115.2	H-pos V-pos
24	PS-55-2	45.995	116	H-pos V-pos
25	MAC 13"-1	35	66.669	H-neg V-neg
26	MAC 13"-2	35	66.667	Sync on G
27	MAC 16"	49.724	74.55	H-neg V-neg
28	MAC 19"	60.241	74.927	H-neg V-neg
29	MAC 21"	68.681	75.06	H-neg V-neg
30	Super MAC-1	48.19	72.29	Sync on G
31	PC 9801 Normal	24.83	56.4	H-neg V-neg
32	PC 9801 High resolution	32.84	80	H-neg V-neg
33	SONY News-1	63.337	59.978	Sync on G
34	SONY News-2	63.337	59.978	H-neg V-neg
35	Sun micro	61.8	65.96	H-neg V-neg
36	SGI-1	48.732	59.94	Sync on G
37	SGI-2	63.839	59.943	Sync on G

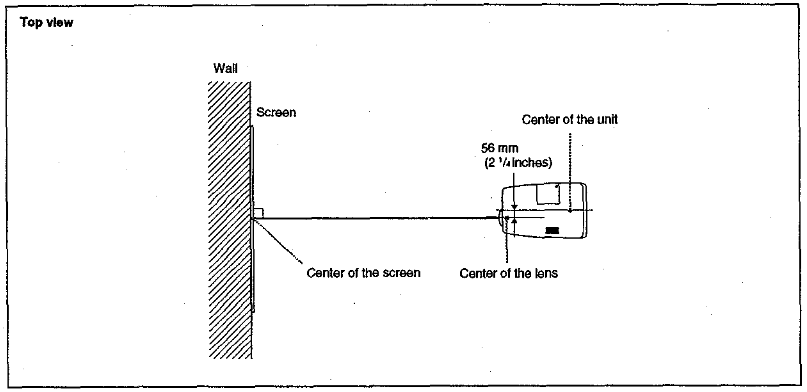
a) VESA is a registered trademark of Video Electronics Standard Association.

About the memory function

There are preset input memories which store 37 kinds of input signals. Also, there are other 150 kinds of user memories.
When a signal other than the preset signals is input in the projector, the signal type is automatimally detected and the picture is displayed on the screen according to the signal type. Adjust the picture using the INPUT SETTING menu.
The sets of the adjustments and settings for the input signal will be saved in the user memory.
When you save more than 150 input signals, the newest one always overwrites the oldest signal.
The registered user memory numbers are displayed in the INPUT INFO menu as →NO. □□.

Installation Examples

When you install the projector, be sure to adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.



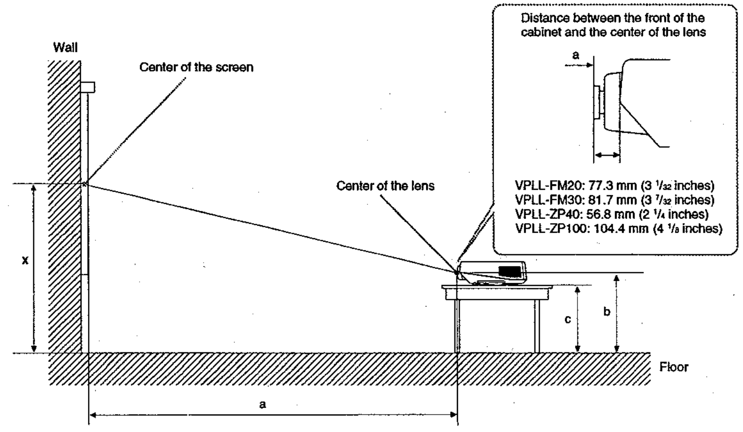
About the Picture Size

The on-screen picture size changes according to the setting of SCAN CONV in the INPUT SETTING menu. Note that the projection distance also changes depending on the picture size.

Input signal	Picture size when SCAN CONV is set to	
	ON	OFF
Composite video signal Y/C video signal Component signal XGA signal[a] Macintosh 16-inch mode	832 × 624 pixels	
VGA signal Macintosh 13-inch mode	832 × 624[b] pixels	640 × 480 pixels
S VGA signal	832 × 624[b] pixels	800 × 600 pixels

a) Compressed XGA signal is reproduced.
b) The resolution is converted.

Floor Installation


Wall
Center of the screen
Center of the lens
Distance between the front of the cabinet and the center of the lens
a
VPLL-FM20: 77.3 mm (3 1/32 inches)
VPLL-FM30: 81.7 mm (3 7/32 inches)
VPLL-ZP40: 56.8 mm (2 1/4 inches)
VPLL-ZP100: 104.4 mm (4 1/8 inches)
x
c
b
Floor
a

a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

(Continued)

Installation Examples

When using the VPLL-FM20 Fixed short focus lens

When using the VPLL-FM20, make sure that the center of the lens is aligned with the vertical center of the screen.

Unit: mm (inches)

Screen size (inches)	50	80	100	120	150	180	200
a	860 (33 7/8)	1420 (56)	1790 (70 1/2)	2160 (85 1/8)	2720 (107 3/4)	3270 (128 3/4)	3640 (143 3/8)
b	x	x	x	x	x	x	x
c	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)
SS: screen size diagonal (inches)
a = (SS × 24.275/1.31 – 64) × 1.000

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal
a = (SS × 24.275/1.26 – 64) × 1.000

When using the VPLL-FM30 Fixed short focus lens

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	290
a		1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	Minimum	x–336 (x–13 1/4)	x–504 (x–19 7/8)	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2435 (x–96 7/8)
	Maximum	x	x	x	x	x	x	x	x	x	x
c	Minimum	x–477 (x–17 7/8)	x–645 (x–25 1/2)	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–54 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2577 (x–101 1/2)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)
SS: screen size diagonal (inches)
a = 37.313 × (SS/1.31) – 60
b (minimum)= x – (SS/1.31 × 11)
c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal
a = 37.313 × (SS/1.26) – 60
b (minimum)= x – (SS/1.26 × 11)
c (minimum)= x – (SS/1.26 × 11+141.5)

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		40	80	100	120	150	180	200	250	300
a	Minimum	1470 (57 7/8)	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	2190 (86 1/4)	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10110 (398 1/8)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b	Minimum	x–336 (x–13 1/4)	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2519 (x–99 1/4)
	Maximum	x	x	x	x	x	x	x	x	x
c	Minimum	x–477 (x–18 7/8)	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–55 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2661 (x–104 7/8)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum)= (SS × 49.958/1.31 – 86) × 1.025
a (maximum)= (SS × 76.096/1.31 – 82) × 0.975
b (minimum)= x – (SS/1.31 × 11)
c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 49.958/1.26 – 86) × 1.025
a (maximum)= (SS × 76.096/1.26 – 82) × 0.975
b (minimum)= x – (SS/1.26 × 11)
c (minimum)= x – (SS/1.26 × 11+141.5)

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 5/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26110 (1027 5/8)	31320 (1233 1/8)
b	Minimum	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2519 (x–99 1/4)
	Maximum	x	x	x	x	x	x	x	x
c	Minimum	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–55 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2661 (x–104 7/8)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum)= (SS × 72.290/1.31 – 155) × 1.025
a (maximum)= (SS × 140.374/1.31 – 20) × 0.975
b (minimum)= x – (SS/1.31 × 11)
c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

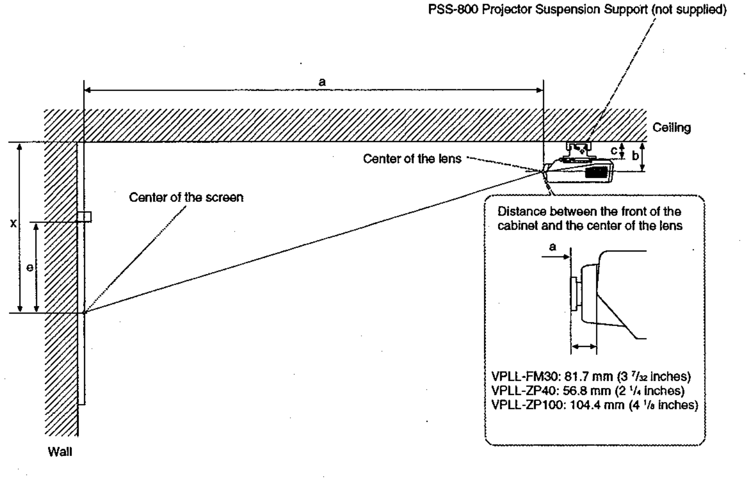
a (minimum)= (SS × 72.290/1.26 – 155) × 1.025
a (maximum)= (SS × 140.374/1.26 – 20) × 0.975
b (minimum)= x – (SS/1.26 × 11)
c (minimum)= x – (SS/1.26 × 11+141.5)

Installation Examples

Ceiling Installation

When installing the projector on the ceiling, use the PSS-800 Projector Suspension Support.

For ceiling installation, consult with qualified Sony personnel.


PSS-800 Projector Suspension Support (not supplied)
a
Ceiling
c
b
Center of the lens
Center of the screen
x
e
Wall
Distance between the front of the cabinet and the center of the lens
a
VPLL-FM30: 81.7 mm (3 7/32 inches)
VPLL-ZP40: 56.8 mm (2 1/4 inches)
VPLL-ZP100: 104.4 mm (4 1/8 inches)

a: Distance between the screen and the center of lens
b: Distance between the ceiling and the center of lens
c: Distance between the ceiling and the bottom of the projector
e: Distance between the top of the available screen range and the center of the screen
x: Distance between the ceiling and the center of the screen

When using the VPLL-FM30 Fixed short focus lens

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	290
a		1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	Minimum	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)
	Maximum	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)
c		When using PSS-800, the height is 150 (6)									
e		305 (12)	457 (18)	610 (24)	762 (30)	914 (36)	1143 (45)	1372 (54)	1524 (60)	1905 (75)	2210 (87)
x	Minimum	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)
	Maximum	c+475 (c+18 3/4)	c+643 (c+25 3/8)	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2575 (c+101 1/2)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a = 37.313 × (SS/1.31) – 60
e = SS × 0.3 × 25.4
x (maximum)= c + (SS/1.31 × 11 + 139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a = 37.313 × (SS/1.26) – 60
e = SS × 0.3 × 25.4
x (maximum)= c + (SS/1.26 × 11 + 139.5)

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10110 (398 1/8)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2659 (c+104 3/4)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum)= (SS × 49.958/1.31 – 86) × 1.025
a (maximum)= (SS × 76.096/1.31 – 82) × 0.975
x (maximum)= c + (SS/1.31 × 11 + 139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 49.958/1.26 – 86) × 1.025
a (maximum)= (SS × 76.096/1.26 – 82) × 0.975
x (maximum)= c + (SS/1.26 × 11 + 139.5)

(Continued)

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 5/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26110 (1027 5/8)	31320 (1233 1/8)
b	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2659 (c+104 3/4)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum)= (SS × 72.290/1.31 – 155) × 1.025
a (maximum)= (SS × 140.374/1.31 – 20) × 0.975
x (maximum)= c + (SS/1.31 × 11+139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

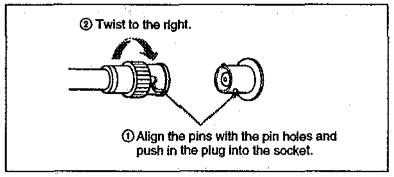
a (minimum)= (SS × 72.290/1.26 – 155) × 1.025
a (maximum)= (SS × 140.374/1.26 – 20) × 0.975
x (maximum)= c + (SS/1.26 × 11+139.5)

Connection Examples

For details on how to connect a computer, a VCR or external active speakers, see page 18 (EN). Also refer to the instruction manual of the equipment to be connected.

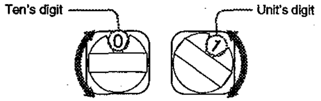
When making connections, be sure to:
- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

Connecting a BNC connector


② Twist to the right.
① Align the pins with the pin holes and push in the plug into the socket.

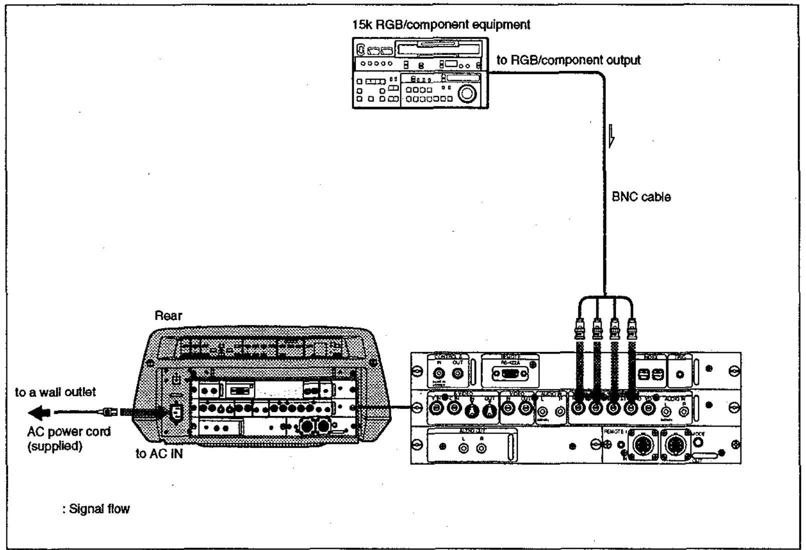
To set the index number

You have to set the index number when you use the multiple projectors. Set the index number so that you can select the projector to be operated with the Remote Commander. The index number is set with the INDEX switches. The index number is set to "01" at the factory. When using only one projector, set the number to "01".


Ten's digit
Unit's digit

Notes
- Do not use the same index number twice in one system.
- Do not separate two index numbers in one system by more than eight numbers.
- Do not use the number "9" if you use the supplied Remote Commander for selecting the index number.
- Do not set the number to "00". If it is set to "00", the projector does not work.

Connecting 15k RGB/Component Equipment


15k RGB/component equipment
to RGB/component output
BNC cable
Rear
to a wall outlet
AC power cord (supplied)
to AC IN
: Signal flow

Notes
- Set the RGB or component signal with the INPUT-A item in the SET SETTING menu.
For details, see page 30 (EN).
- Input the sync on G or composite sync signal when inputting the 15k RGB signal.

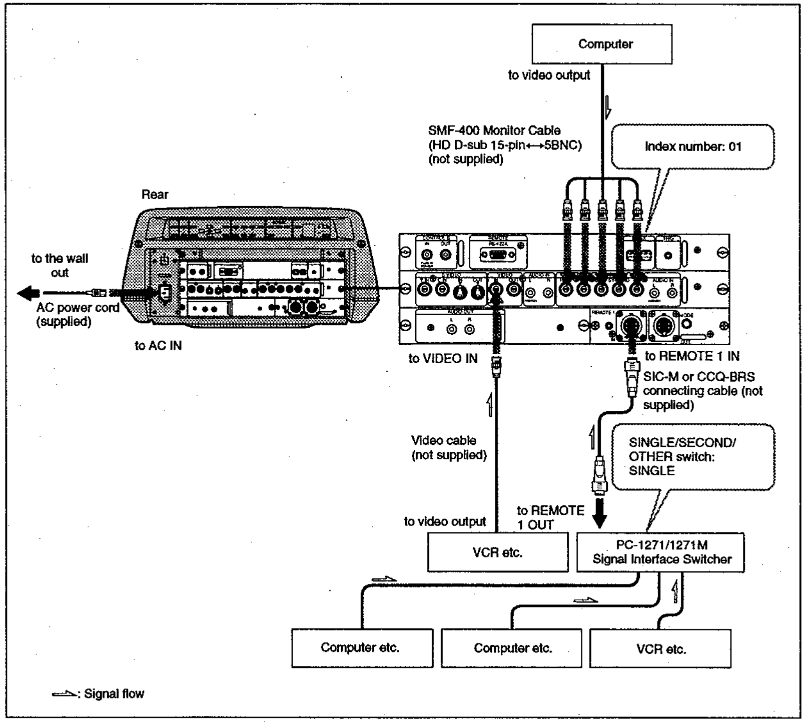
Connecting the Switcher

Use the optional PC-1271/1271M Signal Interface Switcher for connecting various video equipment. The input is selected by pressing the SWITCHER/INDEX/LENS keys on the Remote Commander.
For details on designating the input from the switcher, see pages 13 (EN) and 14 (EN).

Notes

- When you designate the input from the switcher, be sure to set the SWITCHER/INDEX/LENS selector to the SWITCHER position.
- Be sure to designate the SINGLE/SECOND/OTHER switch correctly.
- Set the INPUT-A item in the SET SETTINFG menu depending on the type of external equipment connected to the INPUT A connectors on the projector.
  For details, see page 30 (EN).
- When connecting the external equipment to the VIDEO or S VIDEO connectors, designate the input between VIDEO and S VIDEO connectors.
  For details on designating the input between VIDEO and S VIDEO connectors, see page 19 (EN).
- When connecting the projector to the PC-1271/1271M Signal Interface Switcher, you sometimes cannot perform a proper input selection using "SWITCHER" in the INPUT SELECT menu. In this case, designate the input channel using the SWITCHER/INDEX/LENS keys on the Remote Commander or the SELECT key on the switcher.
- When the remote control detector is exposed to the light from the fluorescent lamp, you sometimes cannot perform a proper input selection. In this case, change the setting of "SIRCS RECEIVER" in the SET SETTING menu. Press and hold the SWITCHER/INDEX/LENS key on the Remote Commander or the SELECT key on the switcher for more than two seconds to designate the input channel.

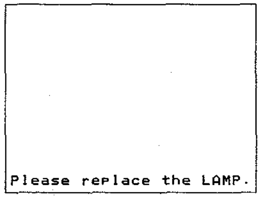
Connection Examples


Computer
to video output
SMF-400 Monitor Cable
(HD D-sub 15-pin↔5BNC)
(not supplied)
Index number: 01
Rear
to the wall out
AC power cord (supplied)
to AC IN
to VIDEO IN
to REMOTE 1 IN
SIC-M or CCQ-BRS connecting cable (not supplied)
Video cable (not supplied)
SINGLE/SECOND/OTHER switch: SINGLE
to video output
to REMOTE 1 OUT
VCR etc.
PC-1271/1271M Signal Interface Switcher
Computer etc.
Computer etc.
VCR etc.
: Signal flow

Maintenance

Replacing the Lamp

When it is time to replace the lamp, the message "Please replace the LAMP." appears on the screen when you turn on the projector. Once the message appears, replace the lamp promptly with a new PK-PJ800[1] Projector Lamp (not supplied).

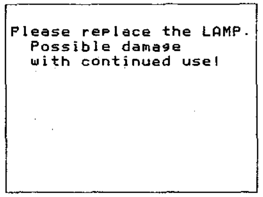


```
Please replace the LAMP.
```

The message disappears if any key on the control panel or the Remote Commander is pressed.

Notes

- If you continue to use the projector after the message above has appeared, the following message appears. When this message appears, no key except the POWER ON/OFF keys will be operable.



```
Please replace the LAMP.
  Possible damage
  with continued use!
```

- After turning off the power, wait at least for one hour before changing the lamp to give it enough time to cool down.

For details on replacement, refer to the instruction manual supplied with the lamp.

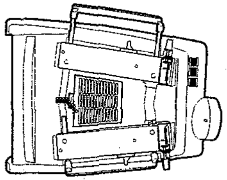
Note

If 88 remains lit, never open the lamp cover if the projector is installed on the ceiling.

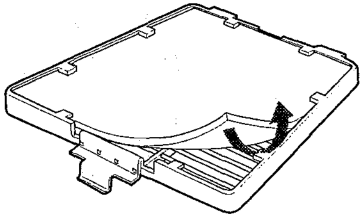
Cleaning the Air Filter

The air filter should be cleaned in every 100 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.
To clean the air filter, follow the steps below:

1. Turn off the MAIN POWER switch and unplug the power cord.
2. Remove the air filter cover on the bottom of the projector.



3. Remove the air filter.



4. Remove the dust from the filter with a vacuum cleaner.
5. Attach the air filter and replace the cover.

Notes

- If the air filter is excessively dirty, wash it with a mild detergent solution and dry it in a shaded place.
- Be sure to attach the air filter cover firmly; the power will not be turned on if it is not closed securely.

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1) PK-PJ800 may not be available in some areas. For details, please consult your nearest Sony office.

Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The MAIN POWER switch is turned off.	Press the MAIN POWER switch at the rear of the projector *(see page 11 (EN))*.
	The power has been turned off and on with the POWER ON/OFF key at a short interval.	Wait for about one minute before turning on the power with the POWER ON key.
	The lamp cover is detached.	Close the lamp cover securely.
	The air filter cover is detached.	Close the air filter cover securely *(see page 45 (EN))*.
No picture and no sound.	Cable is disconnected.	Check that the proper connections have been made *(see pages 18 (EN), 41 (EN) to 44 (EN))*.
	Input selection is incorrect.	Select the input source correctly.
No picture or no sound.	Either the picture or the sound is cut off.	Press the MUTING keys to release the muting function *(see page 10 (EN))*.
The picture is noisy.	Noise may appear on the background depending on the combination of the numbers of dot input from the connector and numbers of pixel on the LCD panel.	Change the desktop pattern on the connected computer.
The picture is colored strange.	Setting for INPUT-A and INPUT-B in the SET SETTING menu is incorrect.	Set INPUT-A or INPUT-B in the SET SETTING menu to the appropriate position according to the input signal *(see page 30 (EN))*.
"NO INPUT" appears when 15k RGB or component signal is input.	The sync signal is incorrect.	Input the correct sync singal (composite sync or sync on G singal (sync on Y for component singal)).
On-screen displays do not appear.	STATUS in the SET SETTING menu has been set to OFF or ALL OFF.	Set STATUS in the SET SETTING menu to ON *(see page 30 (EN))*.
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture*(see pages 24 (EN) and 25 (EN))*.
	Projector is set to wrong color system.	Set COLOR SYS in the PICTURE CTRL menu to match the color system being input *(see page 25(EN))*.
The picture is too dark.	Lamp is nearing the end of its life.	Change the lamp *(see page 45 (EN))*.
	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness in the PICTURE CTRL menu properly *(see page 24 (EN))*.
The picture is not clear.	Picture is out of focus.	Adjust the focus *(see page 20 (EN))*.
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on.
The picture luminance is incorrect.	The CLAMP setting is wrong.	Set CLAMP correctly in the INPUT SETTING menu *(see page 28 (EN))*.
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries *(see page 15 (EN))*.
	The MOUSE/MENU switch has been switched to the MOUSE position.	Set the switch to MENU position.
	You are using the Remote Commander as a wireless Remote Commander, and it is connected to the projector.	Disconnect the cable.
	The unit is influenced of the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu *(see page 31 (EN))*.
	The selected index number is wrong.	Select the correct index number *(see page 14 (EN))*.
Any key does not function other than the POWER ON/OFF keys.	The lamp has reached the end of its life.	Replace the lamp *(see page 45 (EN))*.

On-screen messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal.	Check connections.
Not applicable!	You have pressed the wrong key.	Press the appropriate key.
OPERATING TEMPERATURE TOO HIGH!	Operating temperature is too high.	Turn off the power. (The power turns off automatically after about five minutes.) Check to see that nothing is blocking the exhaust/intake ventilation holes.
Frequency is out of range!	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal that is within the range of the frequency.
Please replace the LAMP. Possible damage with continued use!	The lamp has reached the end of its life.	Replace the lamp.

Error codes

Use the list below to check the meaning of the error codes displayed in the error code display window.

Error code	Meaning	Remedy
88	The lamp does not light up.	If *88* remains lit, never open the lamp cover if the projector is installed on the ceiling.
11	The lamp cover is detached.	Close the lamp cover securely, and turn on the power again.
12	The air filter cover is detached.	Close the air filter cover securely, and turn on the power again.
15	The temperature of the lamp is not normal.	Leave the projector for about one hour without blocking the exhaust/intake ventilation holes, and turn on the power again. If the error code is still in the window after the above operation, consult with qualified Sony personnel.
16	The temperature of the C-board is not normal.	Leave the projector for about one hour without blocking the exhaust/intake ventilation holes, and turn on the power again. If the error code is still in the window after the above operation, consult with qualified Sony personnel.
17	The temperature of the power is not normal.	Leave the projector for about one hour without blocking the exhaust/intake ventilation holes, and turn on the power again. If the error code is still in the window after the above operation, consult with qualified Sony personnel.
Others	The internal circuits do not function correctly.	Inform the displayed error code to qualified Sony personnel.

1-2. VPL-S800U/S800M (INSTALLATION)

Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified Sony personnel before operating it further.
- Unplug the unit from the wall outlet or set the MAIN POWER switch to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- Carry and handle the projector by more than two people due to an incident of an injury.
- Avoid using an extension cord with a low voltage limited since it may cause the short-circuit and physical incidents.
- To carry the projector, be sure to use the carrying handle. Do not hold other parts of the projector, especially the lens, nor catch your finger between the handle, floor, and the projector.
- Do not catch your finger between the unit and surface of the floor when moving the projector installed on the floor.
- Be careful not to catch your finger in the cooling fan.
- Do not carry the projector by holding the cover of the cabinet.
- Do not carry the projector with the cabinet on and with its cover open.

On installation

- When the projector is mounted on the ceiling, the Sony PSS-800 Projector Suspension Support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 30 cm (11 7/8 inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that the temperature near the installation location is not excessive.
- Install the projector on the floor or ceiling. Any other installation causes a mulfunction such as color irregularity or shortening lamp life.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.
- Do not install the projector on the low ceiling.
- Be sure to secure the cabinet cover firmly when installing to the ceiling firmly.

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

- After turning off the power, the cooling fan runs for about two minutes while the POWER indicator flashes in green. The indicator flashes quickly for the first minute. During that time, you will not be able to turn the power back on with the POWER ON key.
- Do not press the MAIN POWER switch while the fan is still running.

Caution

The projector is equipped with ventilation holes (intake) at the bottom/right side and ventilation holes (exhaust) at the front/left side on the rear. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Tips on the Screen

Screen size

The screen size is the diagonal length of the screen in inches, while the aspect ratio of the screen is 3:4. The ratio of the screen height, width, and diagonal is 3:4:5.
If you use a screen with 3:4 aspect ratio whose size is not given in the table below, you can calculate the screen height and width from the screen size (inches) as follows.
Calculate at the conversion rate of 25.4 mm to the inch.

Height (mm) = Screen size × 25.4 × $^3/_5$
Width (mm) = Screen size × 25.4 × $^4/_5$

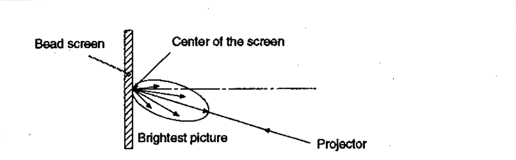
Screen size and dimensions

Screen sizes (inches) (Diagonal)	Height (mm)	Width (mm)
60	914	1219
80	1219	1626
100	1524	2032
120	1829	2438
150	2286	3048
180	2743	3658
200	3048	4064
250	3810	5080
300	4572	6096

Types of screen

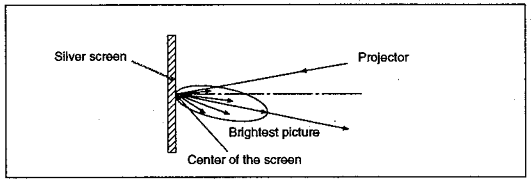
Front projection screen for floor installation

The bead screen is recommended. A screen of this type reflects the brightest light.


Bead screen
Center of the screen
Brightest picture
Projector

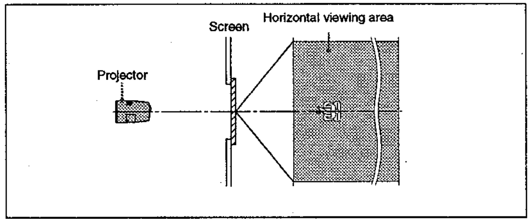
Front projection screen for ceiling installation

The silver screen is recommended. You can get a picture that is two to four times brighter than that of the white screen.


Silver screen
Projector
Brightest picture
Center of the screen

Rear projection screen

The rear projection screen is recommended for a bright and clear full-screen picture projection since the sunlight has little effect on the screen.

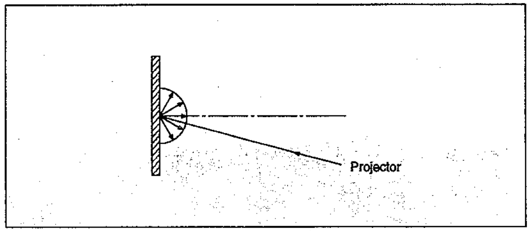

Screen
Horizontal viewing area
Projector

Notes

- A moiré pattern may occur in accordance with the pitch of the screen.
- Be sure to confirm the picture quality before installation.

White screen

When viewers watch the projected picture in a wide area, you can obtain a picture that appears equally bright from all parts of the room using the white screen for both floor and ceiling installations.



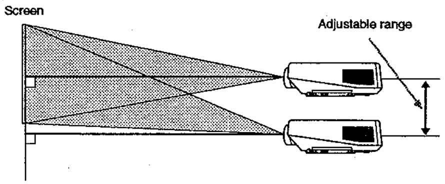
Before Installing the Projector

You have to set the horizontal and vertical positionings of the projector.

Adjusting the Picture Shift

You can adjust the angle of the lens by adjusting the picture shift.
For details on adjusting, see page 12 (EN) and 56 (EN).

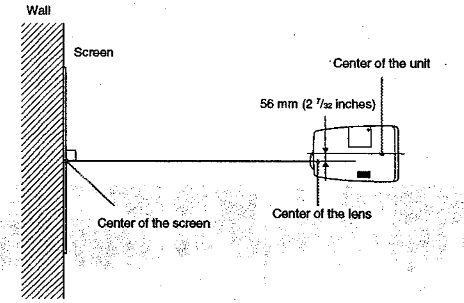
Vertical positioning (side view)


Screen
Adjustable range

Adjusting the Horizontal/Vertical Position of the Picture

Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen when installing the projector.

Horizontal positioning (top view)


Wall
Screen
Center of the unit
56 mm (2 7/32 inches)
Center of the screen
Center of the lens

Installation Examples

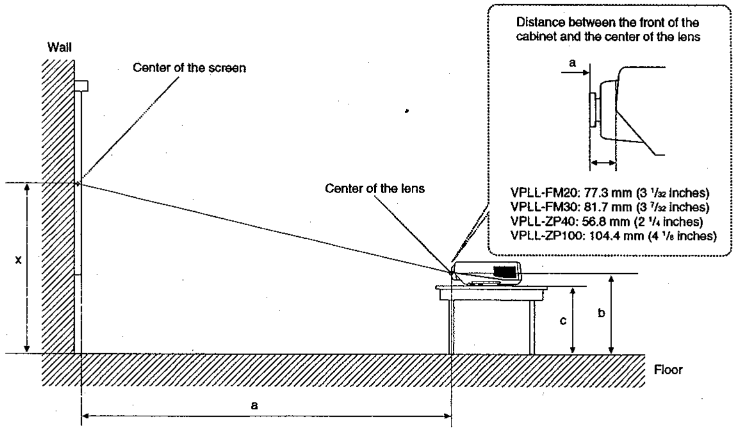
About the Picture Size

The on-screen picture size changes according to the setting of SCAN CONV in the INPUT SETTING menu. Note that the projection distance also changes depending on the picture size.

Input signal	Picture size when SCAN CONV is set to	
	ON	OFF
Composite video signal Y/C video signal Component signal XGA signal[a] Macintosh 16-inch mode	832 × 624 pixels	
VGA signal Macintosh 13-inch mode	832 × 624[b] pixels	640 × 480 pixels
S VGA signal	832 × 624[b] pixels	800 × 600 pixels

a) Compressed XGA signal is reproduced.
b) The resolution is converted.

Floor Installation


Wall
Center of the screen
Center of the lens
Distance between the front of the cabinet and the center of the lens
a
x
a
b
c
Floor

VPLL-FM20: 77.3 mm (3 1/32 inches)
VPLL-FM30: 81.7 mm (3 7/32 inches)
VPLL-ZP40: 56.8 mm (2 1/4 inches)
VPLL-ZP100: 104.4 mm (4 1/8 inches)

a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

(Continued)

Installation Examples

When using the VPLL-FM20 Fixed short focus lens

When using the VPLL-FM20, make sure that the center of the lens is aligned with the vertical center of the screen.

Unit: mm (inches)

Screen size (inches)	50	80	100	120	150	180	200
a	860 (33 7/8)	1420 (56)	1790 (70 1/2)	2160 (85 1/8)	2720 (107 3/4)	3270 (128 3/4)	3640 (143 3/8)
b	x	x	x	x	x	x	x
c	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)

a = (SS × 24.275/1.31 – 64) × 1.000

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a = (SS × 24.275/1.26 – 64) × 1.000

When using the VPLL-FM30 Fixed short focus lens

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	290
a		1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	Minimum	x–336 (x–13 1/4)	x–504 (x–19 7/8)	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2435 (x–96 7/8)
	Maximum	x	x	x	x	x	x	x	x	x	x
c	Minimum	x–477 (x–17 7/8)	x–645 (x–25 1/2)	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–54 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2577 (x–101 1/2)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)

a = 37.313 × (SS/1.31) – 60

b (minimum)= x – (SS/1.31 × 11)

c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a = 37.313 × (SS/1.26) – 60

b (minimum)= x – (SS/1.26 × 11)

c (minimum)= x – (SS/1.26 × 11+141.5)

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		40	80	100	120	150	180	200	250	300
a	Minimum	1470 (57 7/8)	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	2190 (86 1/4)	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10110 (398 1/8)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b	Minimum	x–336 (x–13 1/4)	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2519 (x–99 1/4)
	Maximum	x	x	x	x	x	x	x	x	x
c	Minimum	x–477 (x–18 7/8)	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–55 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2661 (x–104 7/8)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)

a (minimum)= (SS × 49.958/1.31 – 86) × 1.025

a (maximum)= (SS × 76.096/1.31 – 82) × 0.975

b (minimum)= x – (SS/1.31 × 11)

c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 49.958/1.26 – 86) × 1.025

a (maximum)= (SS × 76.096/1.26 – 82) × 0.975

b (minimum)= x – (SS/1.26 × 11)

c (minimum)= x – (SS/1.26 × 11+141.5)

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 5/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26110 (1027 5/8)	31320 (1233 1/8)
b	Minimum	x–672 (x–26 1/2)	x–840 (x–33 1/8)	x–1008 (x–39 3/4)	x–1260 (x–49 5/8)	x–1511 (x–59 1/2)	x–1679 (x–66 1/8)	x–2099 (x–82 3/4)	x–2519 (x–99 1/4)
	Maximum	x	x	x	x	x	x	x	x
c	Minimum	x–813 (x–32 1/8)	x–981 (x–38 5/8)	x–1149 (x–45 1/4)	x–1401 (x–55 1/4)	x–1653 (x–65 1/8)	x–1821 (x–71 3/4)	x–2241 (x–88 1/4)	x–2661 (x–104 7/8)
	Maximum	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)	x–131 (x–5 1/4)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)

a (minimum)= (SS × 72.290/1.31 – 155) × 1.025

a (maximum)= (SS × 140.374/1.31 – 20) × 0.975

b (minimum)= x – (SS/1.31 × 11)

c (minimum)= x – (SS/1.31 × 11+141.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 72.290/1.26 – 155) × 1.025

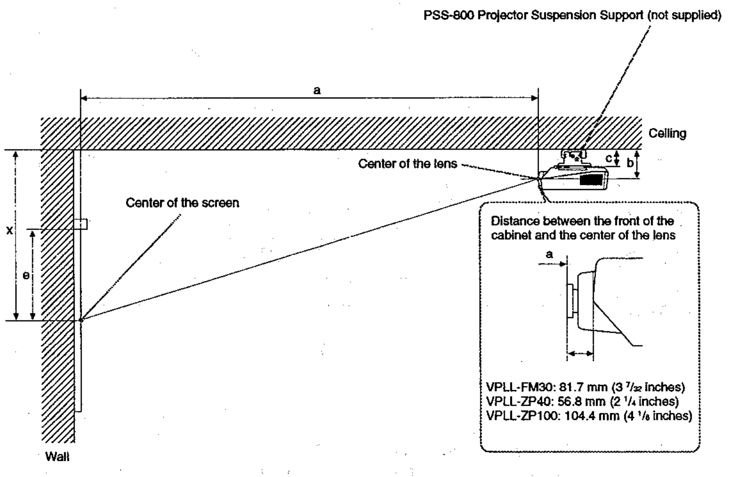
a (maximum)= (SS × 140.374/1.26 – 20) × 0.975

b (minimum)= x – (SS/1.26 × 11)

c (minimum)= x – (SS/1.26 × 11+141.5)

Ceiling Installation

When installing the projector on the ceiling, use the PSS-800 Projector Suspension Support.


PSS-800 Projector Suspension Support (not supplied)
a
Ceiling
Center of the lens
c
b
Center of the screen
x
e
Wall
Distance between the front of the cabinet and the center of the lens
a
VPLL-FM30: 81.7 mm (3 7/32 inches)
VPLL-ZP40: 56.8 mm (2 1/4 inches)
VPLL-ZP100: 104.4 mm (4 1/8 inches)

a: Distance between the screen and the center of lens
b: Distance between the ceiling and the center of lens
c: Distance between the ceiling and the bottom of the projector
e: Distance between the top of the available screen range and the center of the screen
x: Distance between the ceiling and the center of the screen

When using the VPLL-FM30 Fixed short focus lens

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	290
a		1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	Minimum	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)
	Maximum	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)	x+140 (x+5 5/8)
c		When using PSS-800, the height is 150 (6)									
e		305 (12)	457 (18)	610 (24)	762 (30)	914 (36)	1143 (45)	1372 (54)	1524 (60)	1905 (75)	2210 (87)
x	Minimum	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)	x+129 (x+5 1/8)
	Maximum	c+475 (c+18 3/4)	c+643 (c+25 3/8)	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2575 (c+101 1/2)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a = 37.313 × (SS/1.31) – 60
e = SS × 0.3 × 25.4
x (maximum)= c + (SS/1.31 × 11 + 139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a = 37.313 × (SS/1.26) – 60
e = SS × 0.3 × 25.4
x (maximum)= c + (SS/1.26 × 11 + 139.5)

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10110 (398 1/8)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2659 (c+104 3/4)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum)= (SS × 49.958/1.31 – 86) × 1.025
a (maximum)= (SS × 76.096/1.31 – 82) × 0.975
x (maximum)= c + (SS/1.31 × 11 + 139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 49.958/1.26 – 86) × 1.025
a (maximum)= (SS × 76.096/1.26 – 82) × 0.975
x (maximum)= c + (SS/1.26 × 11 + 139.5)

(Continued)

Installation Examples

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 5/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26110 (1027 5/8)	31320 (1233 1/8)
b	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)	c+140 (c+5 5/8)
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)	c+129 (c+5 1/8)
	Maximum	c+811 (c+32)	c+979 (c+38 5/8)	c+1147 (c+45 1/4)	c+1399 (c+55 1/8)	c+1651 (c+65)	c+1819 (c+71 5/8)	c+2239 (c+88 1/4)	c+2659 (c+104 3/4)

When using the PSS-800 Projector Suspension Support; c =150 (6), x (minimum) = e

To calculate the installation measurement (unit: mm)

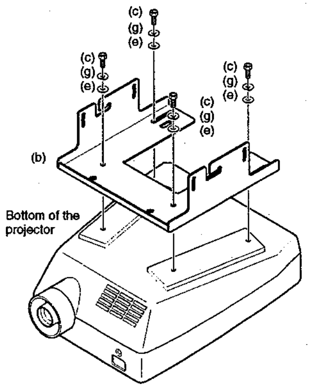
SS: screen size diagonal (inches)
a (minimum)= (SS × 72.290/1.31 – 155) × 1.025
a (maximum)= (SS × 140.374/1.31 – 20) × 0.975
x (maximum)= c + (SS/1.31 × 11+139.5)

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a (minimum)= (SS × 72.290/1.26 – 155) × 1.025
a (maximum)= (SS × 140.374/1.26 – 20) × 0.975
x (maximum)= c + (SS/1.26 × 11+139.5)

To attach the PSS-800 Projector Suspension Support

1 Turn the projector upside down and attach the suspension bracket (b).
Use M8 × 20 bolts (c), M8 spring washers (g), and M8 washers (e).



Note

When attaching the bracket, be careful not to overtighten the bolts.

2 Attach the unit on the ceiling.
For details, refer to the installation manual supplied with the PSS-800 Projector Suspension Support.

Installing the Projectors Using the SU-PJ800 Projector Stand (Twin-stack)

When installing the projectors using the SU-PJ800 Projector Stand, install the projectors following the installing measurements below.

Available screen size for twin-stacking

If the VPLL-ZP40 optional lens is attached: from 60 to 240 inches

If the VPLL-ZP100 the optional lens is attached: from 80 to 250 inches

Note

If the optional lens VPLL-FM20 or VPLL-FM30 is installed, you cannot perform twin-stack installation.

For details on how to install the SU-PJ800 Projector Stand, refer to the installation manual supplied with the SU-PJ800 Projector Stand.

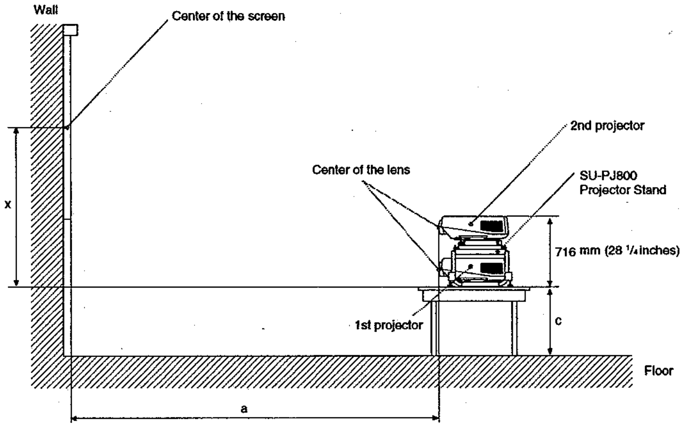
Note on twin-stacking

To properly align the pictures from both projectors, set the zoom to the center of the adjustment range. The lower the "x" value, the sharper the picture.

1 Install the projector following the "a" value in the twin-stacking example.
2 Use the zoom to align the pictures from the first and second projectors so they fill the screen.

Floor installation

For safety and maintenance purpose, install the projectors apart from the wall. Leave a mimimum space of 30 cm (11 7/8 inches) from the both sides and a mimimum space of 70 cm (27 5/8 inches) from the rear.



a: distance between the screen and the center of the lens
c: distance between the floor and the bottom of the projector stand
x: distance between the center of the screen and the bottom of the projector stand

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		60	80	100	120	150	180	200	240
a		2880 (113 1/2)	3850 (151 5/8)	4820 (189 7/8)	5800 (228 3/8)	7260 (285 7/8)	8720 (343 3/8)	9690 (381 1/2)	11640 (458 3/8)
c (Minimum)*		0 (0)	0 (0)	154 (6 1/8)	306 (12 1/8)	535 (21 1/8)	764 (30 1/8)	916 (36 1/8)	1220 (48 1/8)
x	Minimum	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)
	Maximum	707 (27 7/8)	875 (34 1/2)	1043 (41 1/8)	1211 (47 3/4)	1463 (57 5/8)	1715 (67 5/8)	1883 (74 1/4)	2219 (87 3/8)

* "c" is the minimum value for the picture not to be projected on the floor.

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a= (63.740 ×SS/1.31) – 42
c (minimum)= (SS × 0.3 × 25.4) – 608
x (maximum)= (SS/1.31) × 11+ 203.5

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a= (63.740 ×SS/1.26) – 42
x (maximum)= (SS/1.26) × 11 + c + 203.5

When using the VPLL-ZP100 2.0 times zoom long focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250
a		4930 (194 1/8)	6210 (244 1/2)	7500 (295 3/8)	9420 (370 7/8)	11350 (446 7/8)	12630 (497 1/4)	15850 (624 1/8)
c (Minimum)*		0 (0)	154 (6 1/8)	306 (12 1/8)	535 (21 1/8)	764 (30 1/8)	916 (36 1/8)	1297 (51 1/8)
x	Minimum	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)
	Maximum	875 (34 1/2)	1043 (41 1/8)	1211 (47 3/4)	1463 (57 5/8)	1715 (67 5/8)	1883 (74 1/4)	2303 (90 3/4)

* "c" is the minimum value for the picture not to be projected on the floor.

To calculate the installation measurement (unit: mm)

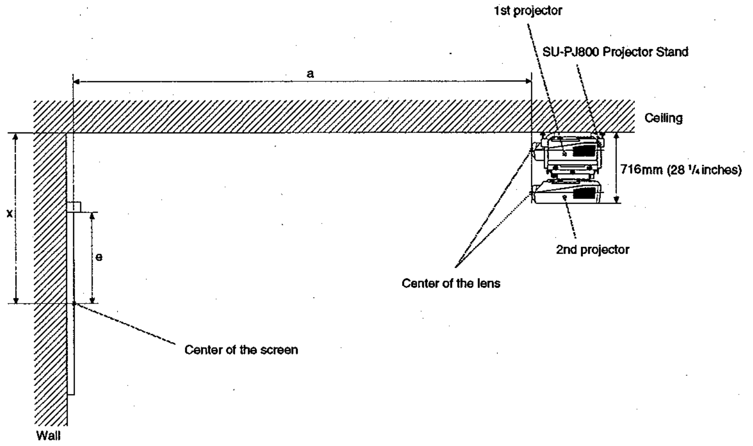
SS: screen size diagonal (inches)
a= (84.126 ×SS/1.31) – 209
c (minimum)= (SS × 0.3 × 25.4) – 608
x (maximum)= (SS/1.31) × 11+ 203.5

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal

a= (84.126 ×SS/1.26) – 209
x (maximum)= (SS/1.26) × 11 + c + 203.5

Installation Examples

Ceiling installation



a: distance between the screen and the center of the lens
e: distance between the top of the avairable screen range and the center of the screen
x: distance between the center of the screen and the ceiling

When using the VPLL-ZP40 1.5 times zoom standard focus lens

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	240
a		3850 (151 5/8)	4820 (189 7/8)	5800 (228 3/8)	7260 (285 7/8)	8720 (343 3/8)	9690 (381 1/2)	11640 (458 3/8)
e (Minimimum)		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1828 (72)
x	Minimum*	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)
	Maximum	875 (34 1/2)	1043 (41 1/8)	1211 (47 3/4)	1463 (57 3/4)	1715 (67 5/8)	1883 (74 1/4)	2219 (87 3/8)

* "x" (minimum) is the minimum value for the picture not to be projected on the ceiling.

To calculate the installation measurement (unit: mm)
SS: screen size diagonal (inches)
a= (63.740 ×SS/1.31) – 42
x (maximum)= (SS/1.31) × 11+ 203.5

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal
a= (63.740 ×SS/1.26) – 42
x (maximum)= (SS/1.26) × 11+ 203.5

When attaching the VPLL-ZP100 by twin-stacking

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250
a		4930 (194 1/8)	6210 (244 1/2)	7500 (295 3/8)	9420 (370 7/8)	11350 (446 7/8)	12630 (497 1/4)	15850 (624 1/8)
e (Minimum)		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75)
x	Minimum*	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)	608 (24)
	Maximum	875 (34 1/2)	1043 (41 1/8)	1211 (47 3/4)	1463 (57 5/8)	1715 (67 5/8)	1883 (74 1/4)	2303 (90 3/4)

* "x" (minimum) is the minimum value for the picture not to be projected on the ceiling.

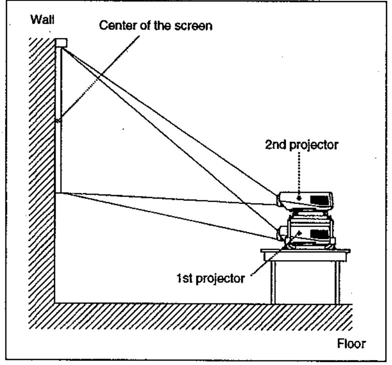
To calculate the installation measurement (unit: mm)
SS: screen size diagonal (inches)
a= (84.126 ×SS/1.31) – 42
x (maximum)= (SS/1.31) × 11+ 203.5

When SCAN CONV is set to OFF to display the S VGA (800 × 600 dots) signal
a= (84.126 ×SS/1.26) – 42
x (maximum)= (SS/1.26) × 11+ 203.5

To align both pictures

Notes

- Do not look directly into the lens when projecting a picture.
- When adjusting with the Remote Commander, set a different index number on each projector, and designate the projector to be operated with the Remote Commander.
  For details on setting the index number, see "To set the index number" on page 38 (EN).
  For details on designating the projector, see page 16 (EN).
- When adjusting the focus, zoom, or picture shift, be sure to set the SWITCHER/INDEX/LENS selector on the Remote Commander to the LENS position.
- When installing the projector stand to the ceiling, set the length of the adjusters (stabilizer feet) not to extend beyond the bottom plane of the projector stand.



1 Press the MAIN POWER switches on the rear of the first and second projectors (▬ ON).

2 Press the POWER ON key on the Remote Commander or the control panel for both projectors.

3 Enter into the SERVICE MODE.
For details on entering into the SERVICE MODE, see "Entering Into the SERVICE MODE" on page 60 (EN).

4 Put the lens cap on the second projector, and press the PATTERN key for the first projector on the Remote Commander or the control panel to display the HATCH pattern.

5 Adjust the screen size using the ZOOM + or – key on the Remote Commander or the control panel, and adjust the vertical positioning using the SHIFT + or – key on the Remote Commander or the control panel to display the HATCH pattern properly.
For details on adjusting the picture, see "Adjusting the Picture" on page 47 (EN).

6 Adjust the focus with the FOCUS + or – key on the Remote Commander or the control panel.
For details on adjusting the focus, see "Adjusting the Picture" on page 47 (EN).

7 Adjust the horizontal positioning of the HATCH pattern using the adjusters of the projector stand (stabilizer feet).

Notes

- If the HATCH pattern is not displayed properly on the screen, or is out of focus after the adjustments above, repeat steps **5** and **6** to adjust finely.
- Be sure not to readjust the first projector after completing the adjustments on the first projector. When aligning both pictures, adjust the second projector to align its picture with that of the first projector.

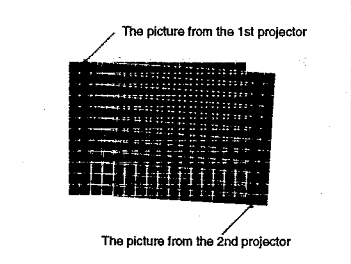
8 Remove the lens cap on the second projector, and put the lens cap on the first projector.
Press the PATTERN key for the second projector on the Remote Commander or the control panel to display the HATCH pattern.

9 Repeat steps **5** and **6** on the second projector.

Note

Be sure not to readjust the focus after aligning both pictures.

10 Remove the lens cap from the second projector, and align both pictures.


The picture from the 1st projector
The picture from the 2nd projector

Fine adjust the following so that both pictures are aligned properly.

Vertical positioning	Adjust it using the SHIFT + or – key on the Remote Commander or the control panel.
Size	Adjust it using the ZOOM + or – key on the Remote Commander or the control panel.
Other	Adjust the adjusters of the projector stand (stabilizer feet). *For details, refer to the installation manual supplied with the SU-PJ800 Projector Stand.*

11 Press the PATTERN keys for both projectors on the Remote Commander or the control panel to clear the HATCH patterns.

12 Project the input signals from the first and second projectors.
If the projected pictures are not aligned properly, check the following and adjust the settings.
① Make sure that all the settings in the INPUT SETTING menu are the same. If SCAN CONV is set to OFF, adjust DOT PHASE on both projectors.
② Adjust the H value of SHIFT in the INPUT SETTING menu.

Note

When adjusting one projector, put the lens cap on the other projector.

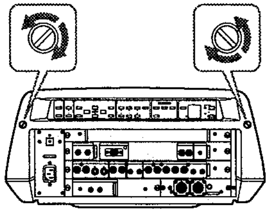
Changing the Polarity According to the Installation Condition

The polarity of the projector is adjusted at the factory to use the projector for front projection on the floor. When the projector is installed on the ceiling, it is necessary to change the setting of H POLARITY or V POLARITY in the SET SETTING menu to project the picture properly.
For details, see page 57 (EN).

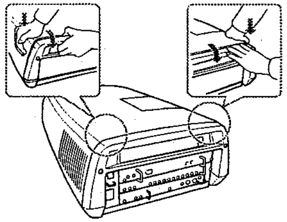
Turning the Control Panel by 180 Degrees

The control panel can be turned by 180 degrees when installing the projector upside down such as on a ceiling. Follow the steps below.

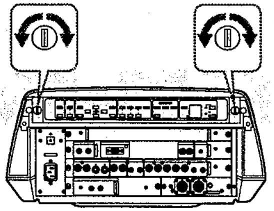
1 Turn the screws on each side of the control panel either clockwise or counterclockwise by 90 degrees with a screwdriver.
This loosens the rear cover.



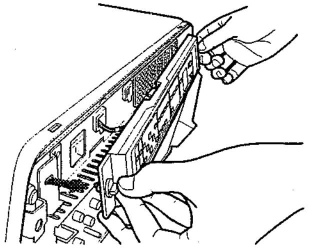
2 Unlock the rear cover by lifting it on each side with the illustrated positions of the top panel while pressing heavily with the palm of your hand.
The rear cover can be removed by pulling it down forward.



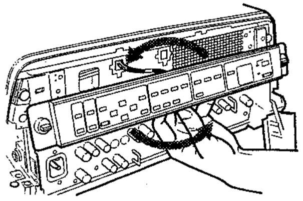
3 Rotate the right and left lock fasteners either clockwise or counterclockwise by 90 degrees.
The control panel can now be detached.



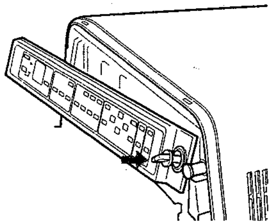
4 Gently pull back the control panel from the left side first to detach it.



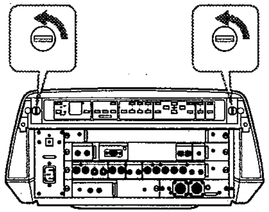
5 Turn the control panel by 180 degrees.



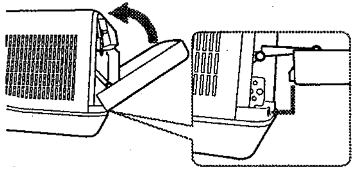
6 Insert the lock fasteners of the control panel from the right side first, then push the lock fasteners.



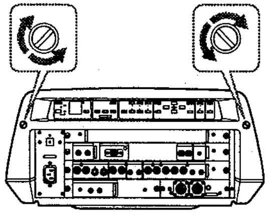
7 Rotate the right and left lock fasteners counterclockwise by 90 degrees to secure the control panel.



8 Insert the bottom side of the rear cover firmly to the projector as illustrated below.



9 Turn the screws on each side of the control panel either clockwise or counterclockwise by 90 degrees to secure the rear cover.



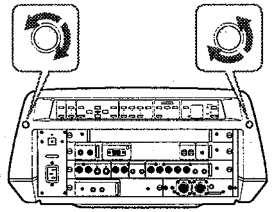
Attaching the Lens

Attach the optional lens. You can attach the following four types of lenses.

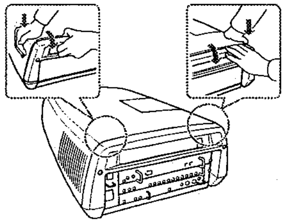
- VPLL-FM20 Fixed short focus lens
- VPLL-FM30 Fixed short focus lens
- VPLL-ZP40 1.5 times zoom standard focus lens
- VPLL-ZP100 2.0 times zoom long focus lens

Follow the steps below.
For details on attaching the lens, also refer to the installation manual supplied with the lens.

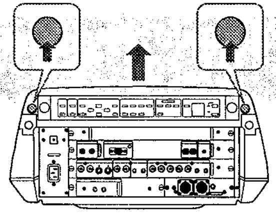
1 Turn the screws on each side of the control panel either clockwise or counterclockwise by 90 degrees with a screwdriver.
This loosens the rear cover.



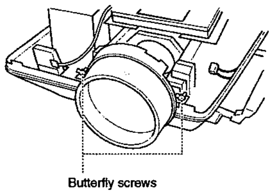
2 Unlock the rear cover by lifting it on its each side with the illustrated positions of the top panel while pressing heavily with the palm of your hand.
The rear cover can be removed by pulling it down forward.



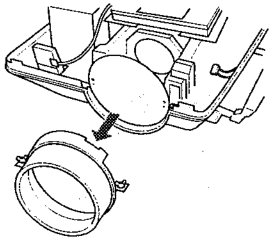
3 While lightly pressing by palm the same position of each side as shown in the illustration 2, press the black knobs on both sides of the control panel for unlocking and then lift the upper cover to remove it.



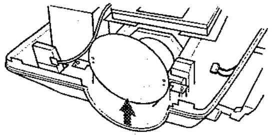
4 Loosen the two butterfly screws on the lens hood.



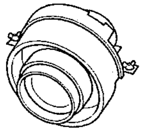
5 Remove the lens hood.



6 Remove the lens hole cover.



7 Insert the lens hood removed in step **5** to the lens with the label facing upwards.

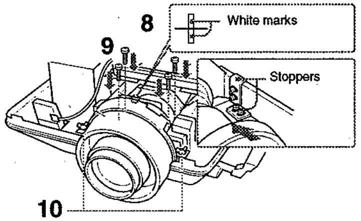


8 **When the lens has a stopper**
Install the lens with the lens stopper and the projector stopper met at their edges.

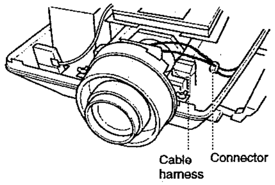
When the lens does not have a stopper
Align the painted white mark (☐) on the lens with the white mark (☐) on the projector.

9 Tighten the four screws (M4 × 12) to secure the lens firmly.

10 Tighten the batterfly screws on the lens hood to secure the hood firmly.



11 Attach the connector from the lens and fix it with the cable harness.



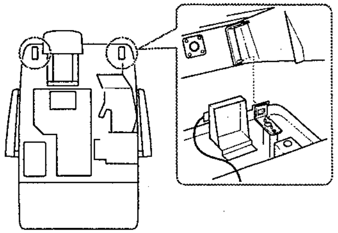
Note

It is unnecessary to perform step **11** when installing an optional lens which does not have the cable, such as the fixed focus lens.

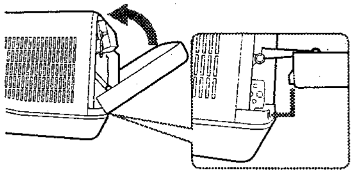
12 Insert the tabs on the front underside of the top panel into the matching grooves on the projector.

Note

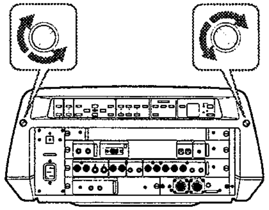
When installing the top panel on the projector, ensure that the connector is not pinched between the main unit and top panel.



13 Attach the bottom side of the rear cover firmly to the projector as illustrated below, and while holding both sides of the upper part, press the black knobs on each side of the control panel.



14 Secure the rear cover by fastening the screws on each side of the control panel with a minus screwdriver or with your hand.



15 Install the projector in its intended place of use.
For details on installing measurements, see pages 21 (EN) to 31 (EN) or the relevant operating instructions of the lens.

Notes

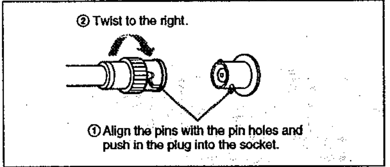
- Depending on the optional lens, the focus adjustment may need to be done manually. Adjust the focus by turning the lens hood.
- The lens scratches easily, so when handling it, always place it gently on a stable and level surface in a horizontal position.
- Avoid touching the lens surface.

Connection Examples

Refer to the instruction manual of the equipment to be connected respectively.

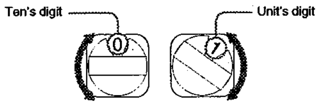
When making connections, be sure to:
- Before connecting any cables, make sure that each piece of equipment to be connected is turned off.
- Use cables appropriate for the equipment to be connected.
- A loose connection may cause hum or noise.
- When disconnecting a cable, pull it out from the plug; not the cable itself.

Connecting a BNC connector


② Twist to the right.
① Align the pins with the pin holes and push in the plug into the socket.

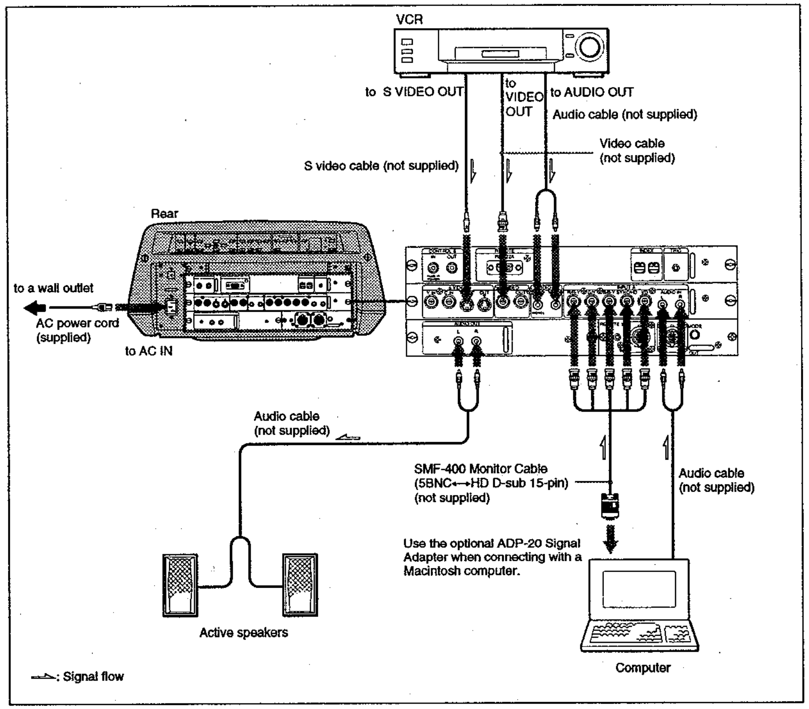
To set the index number

You have to set the index number when you use the multiple projectors. Set the index number so that you can select the projector to be operated with the Remote Commander. The index number is set with the INDEX switches. The index number is set to "01" at the factory. When using only one projector, set the number to "01".


Ten's digit
Unit's digit
0
1

Notes
- Do not use the same index number twice in one system.
- Do not separate two index numbers in one system by more than eight numbers.
- Do not use the number "9" if you use the supplied Remote Commander for selecting the index number.
- Do not set the number to "00". If it is set to "00", the projector does not work.

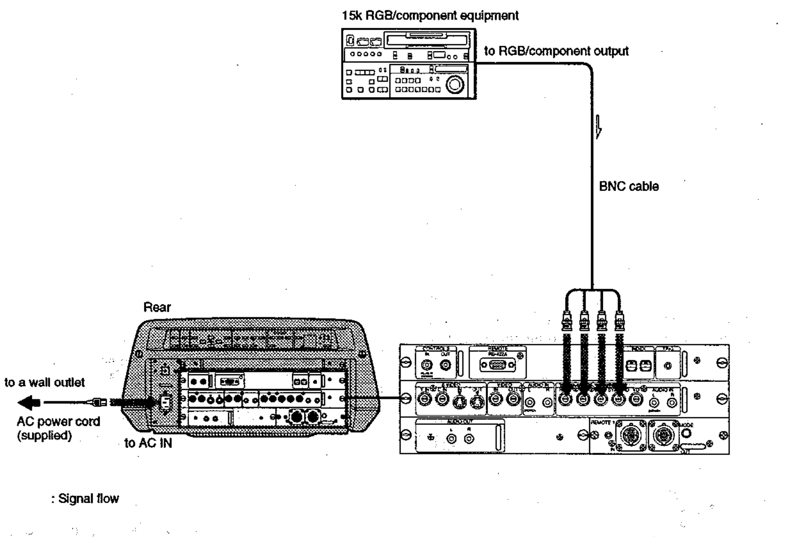
Connecting a Computer, the VCR, or the Active Speakers


VCR
to S VIDEO OUT
to VIDEO OUT
to AUDIO OUT
Audio cable (not supplied)
Video cable (not supplied)
S video cable (not supplied)
Rear
to a wall outlet
AC power cord (supplied)
to AC IN
Audio cable (not supplied)
SMF-400 Monitor Cable (5BNC↔HD D-sub 15-pin) (not supplied)
Audio cable (not supplied)
Use the optional ADP-20 Signal Adapter when connecting with a Macintosh computer.
Active speakers
Computer
: Signal flow

Note

Set the INPUT-A item in the SET SETTING menu to RGB.
For details, see page 56 (EN).

Connecting 15k RGB/Component Equipment



Notes

- Set the RGB or component signal with the INPUT-A item in the SET SETTING menu.
  For details, see page 56 (EN).
- Input the sync on G or composite sync signal when inputting the 15k RGB signal.

Connecting the Switcher

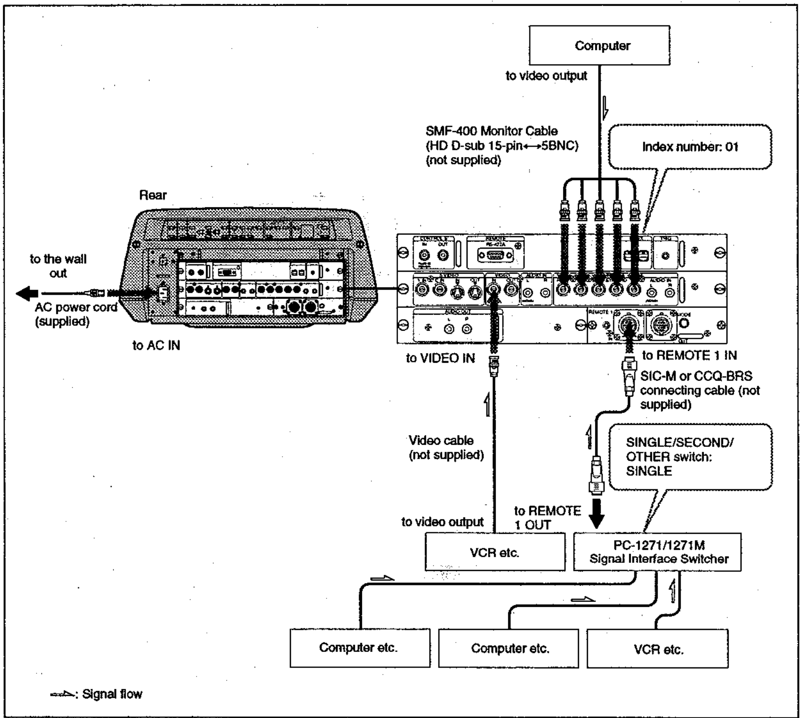
Use the optional PC-1271/1271M Signal Interface Switcher for connecting various video equipment. The input is selected by pressing the SWITCHER/INDEX/LENS keys on the Remote Commander.
For details on designating the input from the switcher, see pages 15 (EN) and 16 (EN).

Notes

- When you designate the input from the switcher, be sure to set the SWITCHER/INDEX/LENS selector to the SWITCHER position.
- Be sure to designate the SINGLE/SECOND/OTHER switch correctly.
- Set the INPUT-A item in the SET SETTINFG menu depending on the type of external equipment connected to the INPUT A connectors on the projector.
  For details, see page 56 (EN).
- When connecting the external equipment to the VIDEO or S VIDEO connectors, designate the input between VIDEO and S VIDEO connectors.
  For details on designating the input between VIDEO and S VIDEO connectors, see page 11 (EN).
- When connecting the projector to the PC-1271/1271M Signal Interface Switcher, you sometimes cannot perform a proper input selection using "SWITCHER" in the INPUT SELECT menu. In this case, designate the input channel using the SWITCHER/INDEX/LENS keys on the Remote Commander or the SELECT key on the switcher.
- When the remote control detector is exposed to the light from the fluorescent lamp, you sometimes cannot perform a proper input selection. In this case, change the setting of "SIRCS RECEIVER" in the SET SETTING menu. Press and hold the SWITCHER/INDEX/LENS key on the Remote Commander or the SELECT key on the switcher for more than two seconds to designate the input channel.

Connection Examples

To connect one switcher

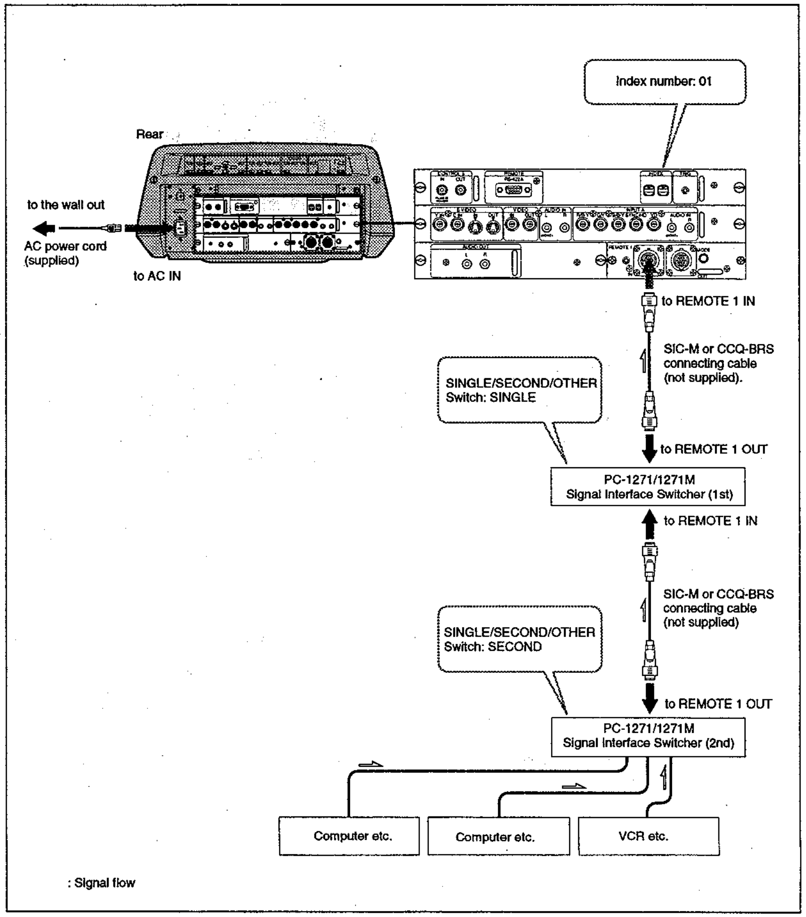

Computer
to video output
SMF-400 Monitor Cable
(HD D-sub 15-pin↔5BNC)
(not supplied)
Index number: 01
Rear
to the wall out
AC power cord
(supplied)
to AC IN
to VIDEO IN
to REMOTE 1 IN
SIC-M or CCQ-BRS connecting cable (not supplied)
Video cable
(not supplied)
SINGLE/SECOND/OTHER switch: SINGLE
to video output
to REMOTE 1 OUT
VCR etc.
PC-1271/1271M
Signal Interface Switcher
Computer etc.
Computer etc.
VCR etc.
: Signal flow

To connect two switchers

When connecting two switchers, you can select up to 17 inputs, including projector's inputs.

Notes

- Be sure to set up the index number on the switchers.
- Be sure to turn off the power of the projector when setting up the index number and connecting cables.


Index number: 01
Rear
to the wall out
AC power cord
(supplied)
to AC IN
to REMOTE 1 IN
SIC-M or CCQ-BRS connecting cable (not supplied).
SINGLE/SECOND/OTHER Switch: SINGLE
to REMOTE 1 OUT
PC-1271/1271M
Signal Interface Switcher (1st)
to REMOTE 1 IN
SIC-M or CCQ-BRS connecting cable (not supplied)
SINGLE/SECOND/OTHER Switch: SECOND
to REMOTE 1 OUT
PC-1271/1271M
Signal Interface Switcher (2nd)
Computer etc.
Computer etc.
VCR etc.
: Signal flow

Connecting Multiple Projectors

These are examples of using multiple projectors installing onto the optional SU-PJ800 Projetor Stand, such as twin-stacking.

For details on installeng the SU-PJ800 Projector Stand, refer to the installation manual supplied with the SU-PJ800 Projector Stand.

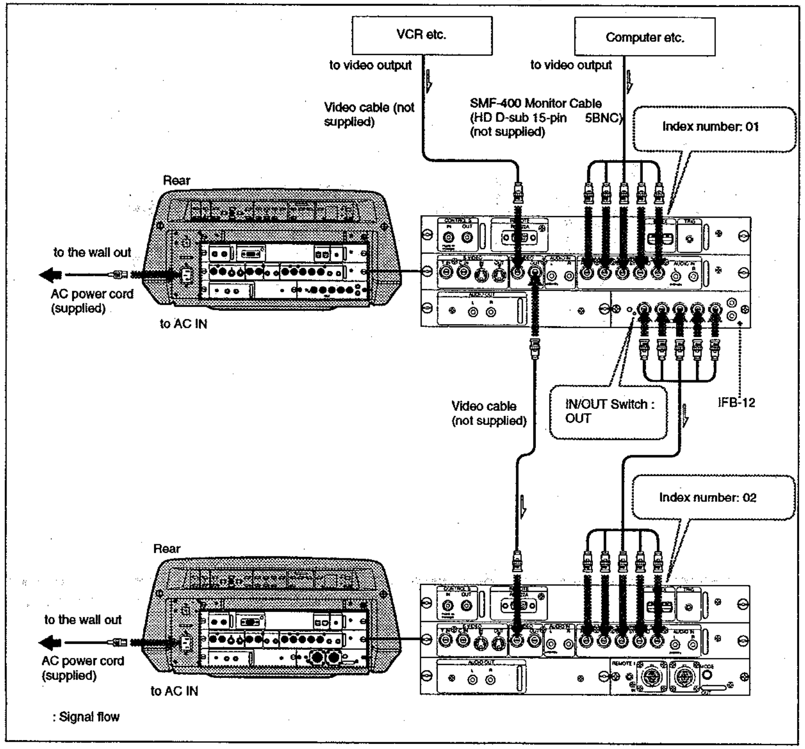
When not using the switcher

Remove the board (IFB-40) equipped with the REMOTE 1 connectors on the rear of the projector, and install the optional IFB-12 Interface Board in the first projector.
Set the IN/OUT switch on the IFB-12 to OUT position.

For details on the IFB-12 Interface Board, refer to the operating instructions supplied with IFB-12 Interface Board.

Note

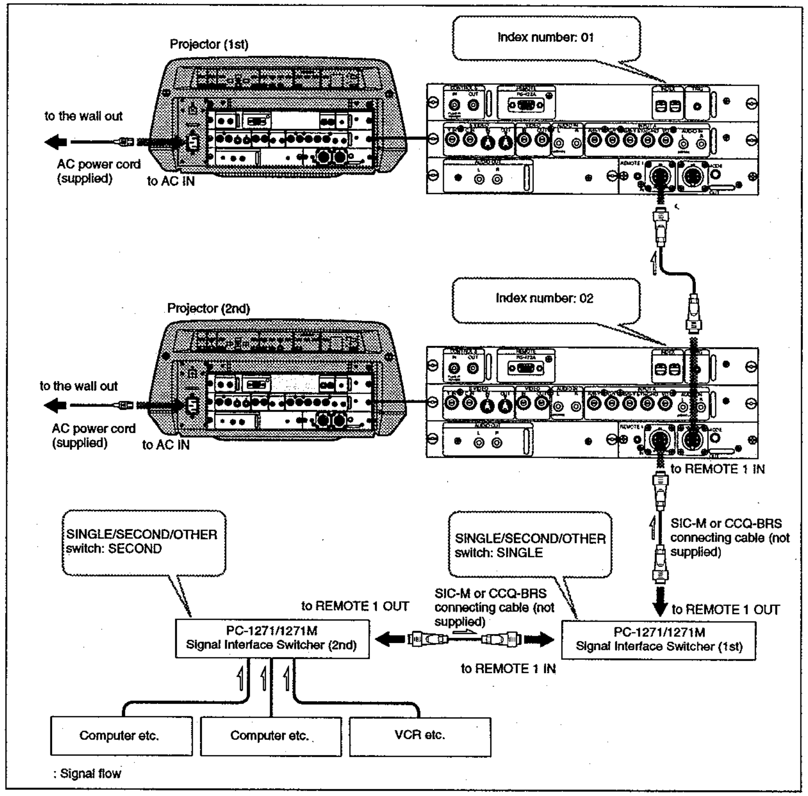
Removing and installing of the interface board and setting up the DIP switch must be done while the power of the projector is off.


VCR etc.
Computer etc.
to video output
to video output
Video cable (not supplied)
SMF-400 Monitor Cable (HD D-sub 15-pin 5BNC) (not supplied)
Index number: 01
Rear
to the wall out
AC power cord (supplied)
to AC IN
Video cable (not supplied)
IN/OUT Switch : OUT
IFB-12
Index number: 02
Rear
to the wall out
AC power cord (supplied)
to AC IN
: Signal flow

When using the switchers

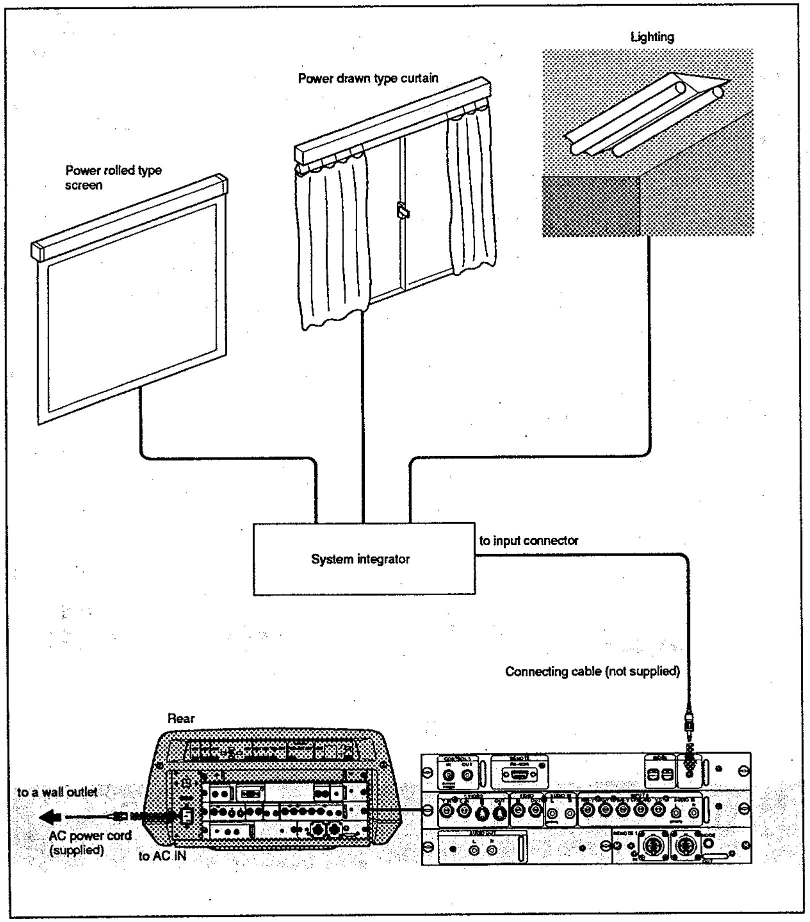
Notes

- Be sure to set up the index numbers of the projectors before using.
- Set up the SINGLE/SECOND/OTHER switch on the PC-1271/1271M Signal Interface Swithcer correctly.


Projector (1st)
Index number: 01
to the wall out
AC power cord (supplied)
to AC IN
Projector (2nd)
Index number: 02
to the wall out
AC power cord (supplied)
to AC IN
to REMOTE 1 IN
SIC-M or CCQ-BRS connecting cable (not supplied)
SINGLE/SECOND/OTHER switch: SECOND
SINGLE/SECOND/OTHER switch: SINGLE
to REMOTE 1 OUT
SIC-M or CCQ-BRS connecting cable (not supplied)
to REMOTE 1 OUT
PC-1271/1271M Signal Interface Switcher (2nd)
PC-1271/1271M Signal Interface Switcher (1st)
to REMOTE 1 IN
Computer etc.
Computer etc.
VCR etc.
: Signal flow

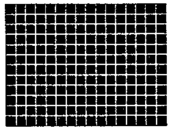
Using the TRIG Jack

When the power is on, the TRIG jack transmits approximately 5 V trigger signal to external equipment connected to the projector. This signal is useful when you connect a system integrator, etc., to the projector; you can pull down an electric screen, draw an electric curtain, or dim lights at the same time as you turn on the projector power. (You cannot use the trigger signal as a power source.)



Adjusting the Picture

1 Set the SWITCHER/INDEX/LENS selector to the LENS position, and then press the PATTERN key on the Remote Commander or the control panel to display the HATCH pattern.



Press the PATTERN key again to clear the HATCH pattern.

2 Press the FOCUS +/– key on the Remote Commander or the control panel to adjust the focus.

"FOCUS" appears on the screen during adjustment.

Note
If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the focus using the FOCUS keys. In such case, adjust the focus using the focus ring of the lens.

3 Press the ZOOM +/– key on the Remote Commander or the control panel to adjust the zoom.

"ZOOM" appears on the screen during adjustment.

Note
If the VPLL-FM20 or VPLL-FM30 optional lens is installed, you cannot adjust the zoom.

4 Press the FOCUS +/– key on the Remote Commander or the control panel again to adjust the focus.

"FOCUS" appears on the screen during adjustment.

5 Press the SHIFT +/– key on the Remote Commander or the control panel to adjust the vertical position of the picture.

"PICTURE SHIFT" appears on the screen during adjustment.

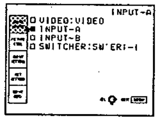
Notes
- Do not look into the lens when the projector lamp is on.
- When you adjust the focus, zoom, and shift with the Remote Commander, be sure to set the SWITCHER/INDEX/LENS selector to the LENS position.

The SERVICE MODE

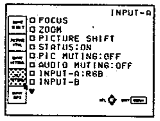
Follow the steps below for entering into the SERVICE MODE. First, you have to set STATUS to ON for showing all of the on-screen display.

Displaying the On-screen Display

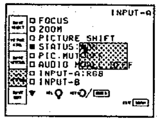
1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.


INPUT-A
VIDEO:VIDEO
INPUT-A
INPUT-B
SWITCHER:SW'ERI-1

2 Use the ♠ or the ♦ key on the control panel to select the SET SETTING menu, then press the ➡ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the SET SETTING menu, then move it to the right or press the ENTER key.
The SET SETTING menu appears.


INPUT-A
FOCUS
ZOOM
PICTURE SHIFT
STATUS:ON
PIC MUTING:OFF
AUDIO MUTING:OFF
INPUT-A:RGB
INPUT-B

3 Use the ♠ or the ♦ key on the control panel to select STATUS, then press the ➡ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select STATUS, then move it to the right or press the ENTER key.
The STATUS pop-up menu appears.


INPUT-A
FOCUS
ZOOM
PICTURE SHIFT
STATUS:
PIC.MUT
AUDIO M
INPUT-A:RGB
INPUT-B

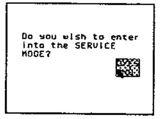
4 Press the ♠ key on the control panel to select ON, then press the ⬅ or the ENTER key.
On the Remote Commander, move the joy stick up to select ON, then move it to the left or press the ENTER key.
The screen is restored to the original screen.

5 Press the MENU key.
The menu display disappears.

Entering Into the SERVICE MODE

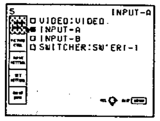
Check that STATUS is not displayed on the screen.

1 Press the keys on the control panel in the following order:
ENTER key, ENTER key, ♠ key, ♦ key, ENTER key
On the Remote Commander, use the joy stick and the ENTER key in the following order:
ENTER key, ENTER key, joy stick (up), joy stick (down), ENTER key
The following screen appears.

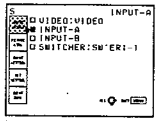

Do you wish to enter into the SERVICE MODE?

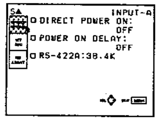
2 Press the ♠ key on the control panel to select YES, then press the ENTER key.
On the Remote Commander, move the joy stick up to select YES, then press the ENTER key.
The projector enters into the SERVICE MODE.

3 Press the MENU key.
The menu of the SERVICE MODE appears. When the projector enters into the SERVICE MODE, "S" appears on the upper-left corner of the screen.


S
INPUT-A
VIDEO:VIDEO
INPUT-A
INPUT-B
SWITCHER:SW'ERI-1

4 Press the ♠ or the ♦ key on the control panel to select the menu, then press the ➡ key or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the menu, then move it to the right or press the ENTER key.
The menu appears for the selected item.


S
INPUT-A
VIDEO:VIDEO
INPUT-A
INPUT-B
SWITCHER:SW'ERI-1


SA
INPUT-A
DIRECT POWER ON: OFF
POWER ON DELAY: OFF
RS-422A:38.4K

5 Make setting or adjustment on the item.
For details on setting individual items, see pages 62 (EN) to 66 (EN).

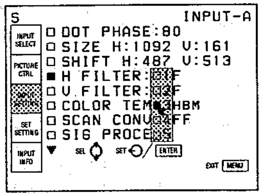
The SERVICE MODE Menus

There are three menus in the SERVICE MODE: SERVICE SETTING menu, SET INFO menu, and W/B ADJUST menu. When the projector enters into the SERVICE MODE, the setting items of the H FILTER-item are expanded for the SERVICE MODE.

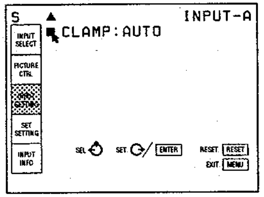
The INPUT SETTING Menu (SERVICE MODE Items)

The INPUT SETTING menu is used to adjust the input signal.

<page 1>


S INPUT-A
□ DOT PHASE:80
□ SIZE H:1092 V:161
□ SHIFT H:487 V:513
■ H FILTER:
□ V FILTER:
□ COLOR TEM HBM
□ SCAN CONV OFF
□ SIG PROCE

<page 2>


S INPUT-A
CLAMP:AUTO

Operation

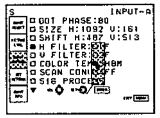
1. Select an item
Use the ↑ or ↓ key on the control panel to select the item, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Change the setting
Press the ↑ or the ↓ key to change the setting.
On the Remote Commander, move the joy stick up or down to change the setting.

3. Restore the original screen
Press the ← or the ENTER key.
On the Remote Commander, move the joy stick to the left or press the ENTER key.
The original screen is restored.

H FILTER (for SERVICE MODE)

When the projector goes into the SERVICE MODE, you can adjust the band width of H FILTER for each input signal and save the setting into the input memory.

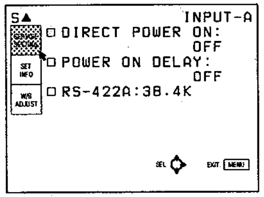

S INPUT-A
□ DOT PHASE:80
□ SIZE H:1092 V:161
□ SHIFT H:487 V:513
■ H FILTER:
□ V FILTER:
□ COLOR TEM HBM
□ SCAN CONV F
□ SIG PROCE

The higher the setting, the wider the band.
The lower the setting, the narrower the band.
Select the setting according to your preference.

Note
Select the input signal before adjusting the band width.

The SERVICE SETTING Menu

This menu sets the direct power on function, power on delay function, and the data transmission rate of the RS-422A connector.


SA INPUT-A
□ DIRECT POWER ON: OFF
□ POWER ON DELAY: OFF
□ RS-422A:38.4K

Operation

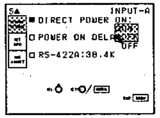
1. Select an item
Use the ↑ or ↓ key on the control panel to select the item, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Change the setting
Press the ↑ or the ↓ key to change the setting.
On the Remote Commander, move the joy stick up or down to change the setting.

3. Restore the original screen
Press the ← or the ENTER key.
On the Remote Commander, move the joy stick to the left or press the ENTER key.
The original screen is restored.

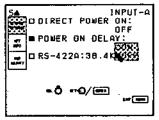
DIRECT POWER ON

Sets to ON when you want to turn on the projector by simply pressing the MAIN POWER switch.


SA INPUT-A
■ DIRECT POWER ON:
□ POWER ON DELAY OFF
□ RS-422A:38.4K

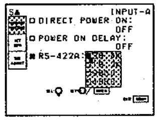
POWER ON DELAY

When connecting multiple projectors, set to ON to turn on the projectors sequentially one by one. The delay time depends on the index number on each projector.


SA INPUT-A
□ DIRECT POWER ON: OFF
■ POWER ON DELAY:
□ RS-422A:38.4K

RS-422A

Sets the data transmission rate of the RS-422A connector.

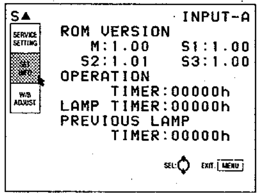

SA INPUT-A
□ DIRECT POWER ON: OFF
□ POWER ON DELAY: OFF
■ RS-422A:

Note
Set the same data transmission rate for all projectors and computers.

The SERVICE MODE Menus

The SET INFO Menu

The SET INFO menu indicates the number of hours of the projector and lamp have been operated.



```
S▲                INPUT-A
    ROM VERSION
       M:1.00    S1:1.00
      S2:1.01    S3:1.00
    OPERATION
         TIMER:00000h
    LAMP TIMER:00000h
    PREVIOUS LAMP
         TIMER:00000h
```

ROM VERSION

Indicates the ROM version number of the projector. Both main and sub (1 – 3) versions are indicated.

M: main ROM version
S1: on-screen ROM versions
S2: communication ROM version
S3: scan converter ROM version

OPERATION TIMER

Indicates the total number of hours the projector has been operated.

LAMP TIMER

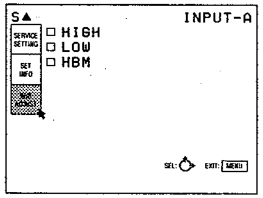
Indicates the total number of hours the current lamp has been operated.

PREVIOUS LAMP TIMER

Indicates the total number of hours the previous lamp operated for.

The W/B ADJUST Menu

This menu sets the values of the COLOR TEMP in the INPUT SETTING menu.

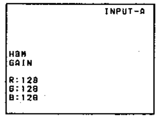


```
S▲                INPUT-A
    □ HIGH
    □ LOW
    □ HBM
```

Operation

1. Select the COLOR TEMP item to be set

Use the ↑ or ↓ key on the control panel to select the COLOR TEMP item, then press the → or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the COLOR TEMP item, then move it to the right or press the ENTER key.
The projector enters into the GAIN/BIAS adjust mode.



```
         INPUT-A
HBM
GAIN
R:128
G:128
B:128
```

2. Select the item to be adjusted

Use the ↓ key on the control panel to select the item.
On the Remote Commander, move the joy stick down to select the item.
Each time the ↓ key is pressed, the selected color item appears in the following order.
On the Remote Commander, each time the joy stick moves down, the selected color item appears in the following order:

R (GAIN) → G (GAIN) → B (GAIN)
↑ ↓
B (BIAS) ← G (BIAS) ← R (BIAS)

3. Adjust an item

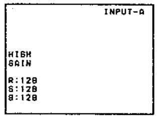
To increase the number, press the → key.
On the Remote Commander, move the joy stick to the right.
To decrease the number, press the ← key.
On the Remote Commander, move the joy stick to the left.

4. Restore the original screen

Press the ENTER key.
The original screen is restored.

HIGH

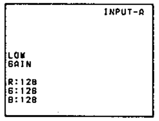
Changes the color temperature of the COLOR TEMP's HIGH setting value in the INPUT SETTING menu.



```
         INPUT-A
HIGH
GAIN
R:128
G:128
B:128
```

LOW

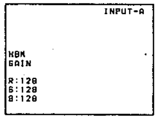
Changes the color temperature of the COLOR TEMP's LOW setting value in the INPUT SETTING menu.



```
         INPUT-A
LOW
GAIN
R:128
G:128
B:128
```

HBM

Changes the color temperature of the COLOR TEMP's HBM setting value in the INPUT SETTING menu.



```
         INPUT-A
HBM
GAIN
R:128
G:128
B:128
```

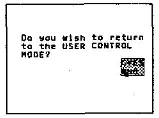
Note

If you change the setting values of the color temperature, the new value is automatically stored over the former one. We recommend you to take a note of the factory setting value before changing the setting.

Restoring the USER CONTROL MODE

Normally, once you turn off the power using the POWER OFF key after making adjustment, the USER CONTROL MODE is automatimally restored when you turn on the power again.
To restore the USER CONTROL MODE before turning off the power, follow the steps below.

1 Press the keys on the control panel in the following order:
ENTER key, ENTER key, ↑ key, ↓ key, ENTER key
On the Remote Commander, use the joy stick and the ENTER key in the following order:
ENTER key, ENTER key, joy stick (up), joy stick (down), ENTER key
The following screen appears.



Do you wish to return to the USER CONTROL MODE?

2 Press the ↑ key on the control panel to select YES, then press the ENTER key.
On the Remote Commander, move the joy stick up to select YES, then press the ENTER key.
The projector goes back into the USER CONTROL MODE.

Memory Structure

This model has three types of memories.

The input memory

There are preset input memories which store 37 kinds of input signals. Also, there are other 150 kinds of user memories.
When a signal other than the preset signals is input in the projector, the signal type is automatimally detected and the picture is displayed on the screen according to the signal type. Adjust the picture using the INPUT SETTING menu.
The sets of the adjustments and settings for the input signal will be saved in the user memory.
When you save more than 150 input signals, the newest one always overwrites the oldest signal.

The channel memory

There are 19 channel memories in total for the signals input from the video, INPUT A, and INPUT B connectors; 16 memories for two switchers.
You can save the adjustments and settings in the PICTURE CTRL menu for each signal input from the video, INPUT A, INPUT B or switchers in the channel memory.

The set memory

There is a single set memory.
You can save the adjustments and settings in the SET SETTING menu. The adjustments and settings are overwritten automatically.

Memory Structure

Items which can be saved

Menu	Item	Input (user) Memory (150 memories)	Channel memory (19 memories)	Set memory (1 memory)
INPUT SELECT	VIDEO			○
	INPUT-A			
	INPUT-B			
	SWITCHER			
PICTURE CTRL	CONTRAST		○	
	BRIGHT		○	
	COLOR		○	
	HUE		○	
	SHARP		○	
	D. PICTURE		○	
	COLOR SYS		○	
	GAMMA MODE		○	
INPUT SETTING	DOT PHASE	○		
	SIZE	○		
	SHIFT	○		
	H FILTER	○		
	V FILTER	○		
	COLOR TEMP	○		
	SCAN CONV	○		
	SIG PROCESS	○		
	CLAMP	○		
SET SETTING	FOCUS			
	ZOOM			
	PICTURE SHIFT			
	STATUS			○
	PIC MUTING			
	AUDIO MUTING			
	INPUT-A			○
	INPUT-B			○
	SPEAKER			○
	LANGUAGE			○
	H POLARITY			○
	V POLARITY			○
	INDEX			*
	POWER SAVING			○
	SIRCS RECEIVER			○

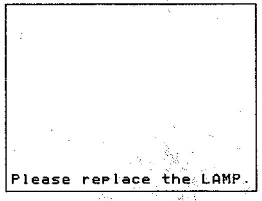
Menu	Item	Input (user) Memory (150 memories)	Channel memory (19 memories)	Set memory (1 memory)
INPUT INFO	fH	✻		
	fV	✻		
	H/C-SYNC	✻		
	V–SYNC	✻		
	SonG	✻		
	INPUT SIGNAL	✻		
	INPUT MEMORY No.			*
SERVICE SETTING	DIRECT POWER ON			○
	POWER ON DELAY			○
	RS-422A			○
SET INFO	ROM VERSION M			*
	ROM VERSION S1			*
	ROM VERSION S2			*
	ROM VERSION S3			*
	OPERATION TIMER			○
	LAMP TIMER			○
	PREVIOUS LAMP TIMER			○
W/B ADJUST	HIGH			○
	LOW			○
	HBM			○

✻ : The selected conditions for the input memories.
* : Only displaying the information.
▨: Effective only when in the SERVICE MODE.

Maintenance

Note on the Time to Replace the Lamp

When it is time to replace the lamp, the message "Please replace the LAMP." appears on the screen when you turn on the projector. Once the message appears, replace the lamp promptly with a new PK-PJ800[1] Projector Lamp (not supplied).

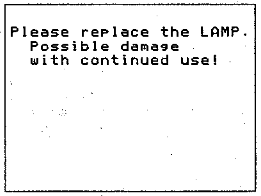


```
Please replace the LAMP.
```

The message disappears if any key on the control panel or the Remote Commander is pressed.

Notes

- If you continue to use the projector after the message above has appeared, the following message appears. When this message appears, no key except the POWER ON/OFF keys will be operable.



```
Please replace the LAMP.
  Possible damage
  with continued use!
```

- After turning off the power, wait at least for one hour before changing the lamp to give it enough time to cool down.

Note

If *88* remains lit, never open the lamp cover if the projector is installed on the ceiling.

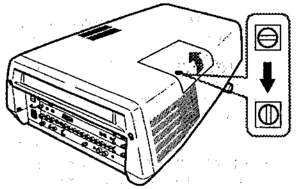
Replacing the lamp

1 When replacing the lamp after using the projector, press the projector POWER OFF key on the control panel or the Remote Commander. Wait for about two minutes.
After the fan stops running, turn off the MAIN POWER switch at the rear of the projector. Wait for at least an hour for the lamp to cool down.

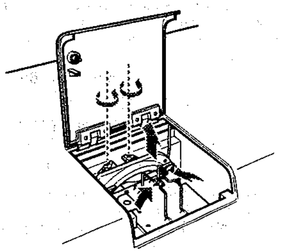
Note

The lamp will still be very hot right after turning off the MAIN POWER switch. Wait until the lamp cools down completely before replaced.

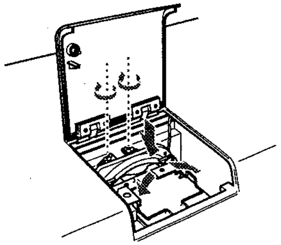
2 Disconnect the power cord. After the lamp has cooled down completely, loosen the screw on the top of the projector with a coin (or a similar object) or screw driver and open the lamp cover.



3 Loosen the two batterfly screws, and pull up the fold-away handles and pull the lamp out.



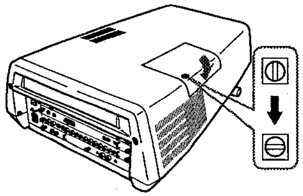
4 Insert the new lamp and push down securely. Tighten the two batterfly screws and push down the fold-away handles to both sides until they click.



Notes

- Be careful not to touch the lamp or the reflector.
- The power will not turn on if the lamp is not secured properly.

5 Close the lamp cover and tighten the screw.



Note

When closing the lamp cover, be sure to close it securely by pressing both sides of the lamp cover. The power will not turn on if it is not closed securely.

6 Connect the AC power cord and turn on the MAIN POWER switch. The projector will go into the standby mode.

7 Press the following keys on the control panel in the following order for less than in five seconds each: LIGHT, ←, →, ENTER.

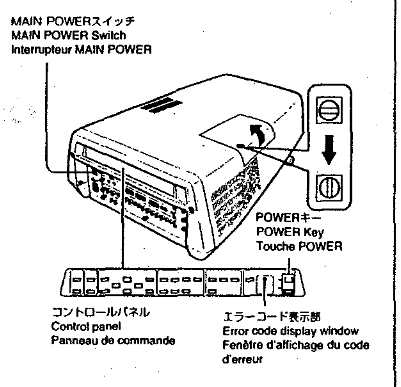
If the message "Please replace the LAMP." appears on the screen after pressing the POWER ON key on the Remote Commander or control panel, press the POWER OFF key to enter the standby mode, and repeat the step **7** again.

---

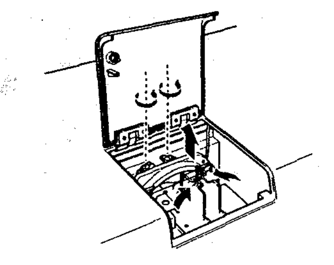
[1] PK-PJ800 may not be available in some areas. For details, please consult your nearest Sony office.

1-3. PK-PJ800 (OPERATING INSTRUCTION)

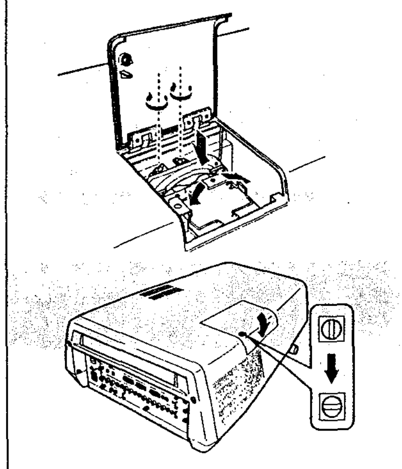
A



B



C



English

Before operating the unit, please read this manual thoroughly and retain it for future reference.

The PK-PJ800 lamp is designed to be used with the VPL-V800Q/QM LCD data projector only. Do not use it for any other projector as doing so may lead to breakdown or fire.

Before replacing the lamp

If the number *88* remains lit on the error code display window for more than 3 minutes after turning on the power, never open the lamp cover if the projector is installed on the ceiling.

Replacing the lamp

1 When replacing the lamp after using the projector, press the projector POWER OFF key on the control panel or the Remote Commander. Wait for about 2 minutes. After the fan stops running, turn off the MAIN POWER switch at the rear of the projector. Wait for at least an hour for the lamp to cool.

Note

The lamp will still be very hot after turning off the MAIN POWER switch. Wait until the lamp has cooled completely before replacing.

2 Disconnect the power cord. After the lamp has cooled down completely, loosen the screw on the top of the projector with a coin (or a similar object) or screw driver and open the lamp cover. (Figure A)

3 Loosen the two wing nuts, pull up the fold-away handles and pull the lamp out. (Figure B)

4 Insert the new lamp and push down securely. Tighten the wing nuts and push down the fold-away handles. (Figure C)

Notes

- Be careful not to touch the lamp or the reflector.
- The power will not turn on if the lamp is not secured properly.

5 Close the lamp cover and tighten the screw. (Figure C)

Note

When closing the lamp cover, be sure to close it securely by pressing both sides of the lamp cover. The power will not turn on if it is not closed securely.

6 Connect the AC power cord and turn on the MAIN POWER switch. The projector will go into the standby mode.

7 Press the following control panel keys in the following order for less than in five seconds each:
LIGHT, ←, →, ENTER

If the message "Please replace the LAMP." appears on the screen after pressing the POWER ON key on the control panel or Remote Commander, repeat Step 7 again.

Disposal of used projector lamp

As the materials used in this lamp are similar to those of a fluorescent lamp, you should dispose of a used projector lamp in the same way as a fluorescent lamp.

1-4. PSS-800 (INSTALLATION)

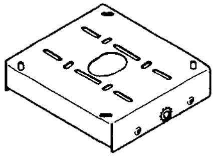
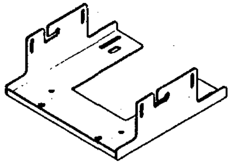
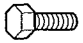
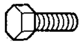
English

Maximum load: 30 kg (66 lb 2 oz)

The PSS-800 suspension support is designed for use with Sony LCD Data projectors the VPL-V800Q/QM.

Caution
- For installation, consult with qualifies Sony personnel.
- The ceiling should be capable of supporting a weight of at least 150 kg (330 lb 11 oz); if not, the ceiling must be reinforced.
- When you attach the bracket directly to the ceiling, use commercially available M10 bolts with nuts and washers, depending on the ceiling. Use of other bolts, nuts, and washers other than M10 may present a danger of falling.
- Be sure to assemble and attach the bracket in the order indicated; otherwise the projector may fall.

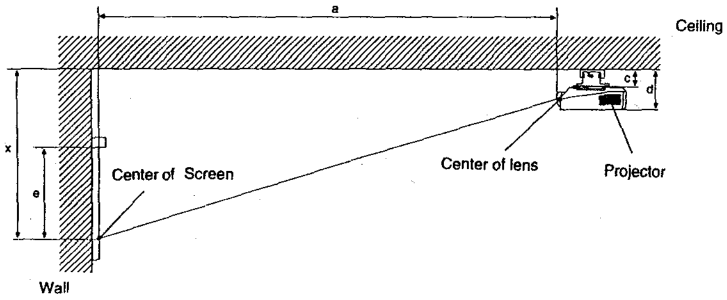
Parts List

(a)	Base box (1)		
(b)	Suspension bracket (1)		
(c)	Bolt M8 × 20 (6)	Parts number 4-047-766-01	
(d)	Bolt M6 × 12 (4)	Parts number 4-056-754-01	
(e)	Washer M8 (6)	Parts number 4-047-748-01	
(f)	Washer M6 (4)	Parts number 4-056-755-01	

(g)	Spring washer M8 (4)	Parts number 4-047-749-01	
(h)	Spacer (2)	Parts number 4-056-753-01	
(i)	Shim spacer (4)	Parts number 4-056-870-01	

Installation Diagram

Side view


a
Ceiling
c
d
x
e
Center of Screen
Center of lens
Projector
Wall

a: Distance between the center of lens and the screen

c: Distance between the ceiling and the bottom of the projector: 150 mm (6 inches)

d: Distance between the top of the projector and the ceiling: 387 mm (15 ¼ inches)

e: Distance from the top edge of available projected picture to the center of screen

x: Distance between the ceilig and the center of the screen

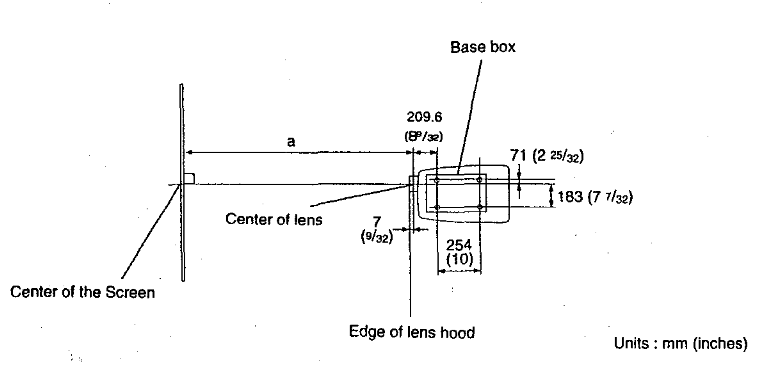
Units: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3090 (121 3/4)	3880 (152 7/8)	4680 (184 3/8)	5870 (231 1/8)	7070 (278 3/8)	7860 (309 1/2)	9860 (388 1/4)	11850 (466 5/8)
	Maximum	4710 (185 1/2)	5910 (232 3/4)	7120 (280 3/8)	8920 (351 1/4)	10730 (422 1/2)	11940 (470 1/8)	14950 (588 5/8)	17960 (707 1/8)
c		150 (6)							
e		610 (24)	762 (30)	914 (36)	1143 (45)	1372 (54)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	610 (24)	762 (30)	914 (36)	1143 (45)	1372 (54)	1524 (60)	1905 (75)	2286 (90)
	Maximum	967 (38 1/8)	1136 (44 3/4)	1305 (51 1/2)	1559 (61 1/2)	1813 (71 1/2)	1982 (78 1/8)	2405 (94 3/4)	2828 (111 3/8)

Installation Diagram

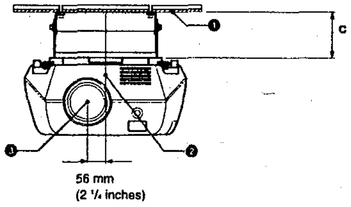
Top view

Align the center of the lens with the center of the screen.


Base box
209.6
(8P/32)
a
71 (2 25/32)
183 (7 7/32)
Center of lens
7
(9/32)
254
(10)
Center of the Screen
Edge of lens hood
Units : mm (inches)

Front view

The lens is offset 56 mm (2 ¹/₄ inches) to the left from the center of the projector. When mounting, take care to align the center of the lens with the center of the screen; not the center of the projector.



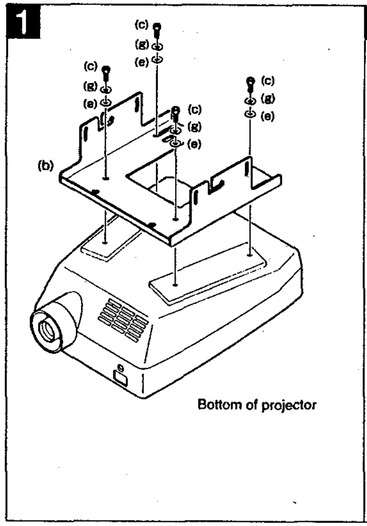
c: Distance between the ceiling and the mounting surface of the suspension bracket: 150 mm (6 inches)

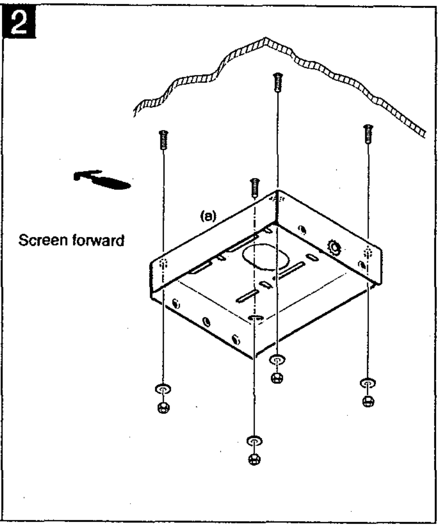
➊ Ceiling

➋ Center of projector

➌ Center of lens

Attaching to the ceiling





English

1 Turn the projector upside down and attach the suspension bracket (b).
Use M8 × 20 bolts (c), M8 spring washers (g) and M8 washers (e).

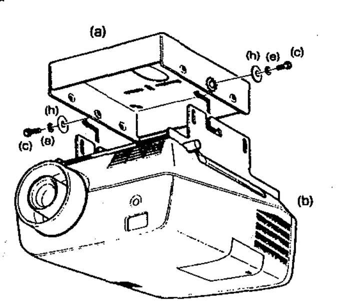
Note

When attaching the bracket, be careful not to overtighten the bolts.

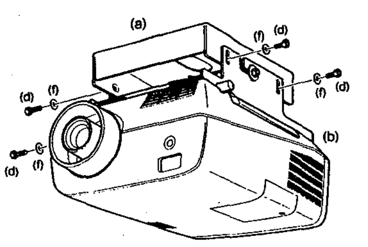
2 Attach the base box (a) to the ceiling.
Use M10 bolts, nuts and washers (not supplied).

Attaching to the ceiling

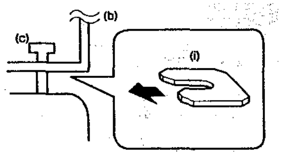
3



4



5



English

3 Tighten loosely two bolts M8 × 20 (c), washers (e) and spacers (h) to the base box hinge pins (a). Hang the projector with the suspension bracket (b) on the base box hinge pins (two bolts M8 × 20 (c)).

4 Attach four bolts M6 × 12 (d) and washers M6 (f), tighten all bolts M6 × 12 (d) (angle holding) and two bolts M8 × 20 (c) (attached in step 3) to secure the projector to the screen angle.

5 If the image appears lopsided, place a shim spacer (i) between the projector and the suspension bracket (b).

Installation Examples

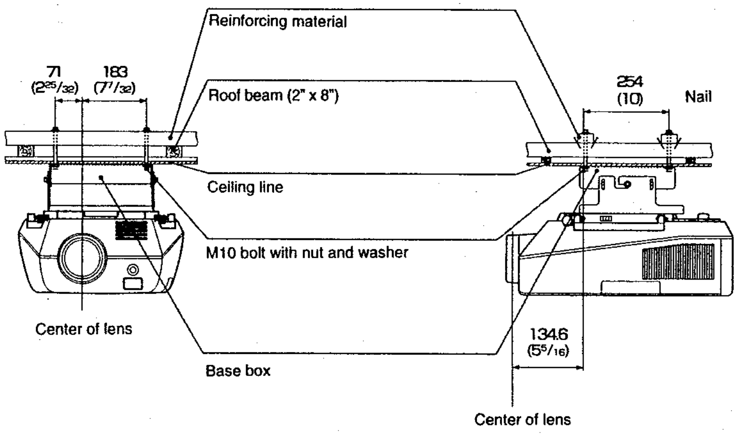
The following illustrations show the projector suspension support attached to with the ceiling. Installation is different depending on the material of ceiling.

Caution

Before installation, check that the maximum ceiling loading is in excess of 150 kg (330 lb 11 oz).

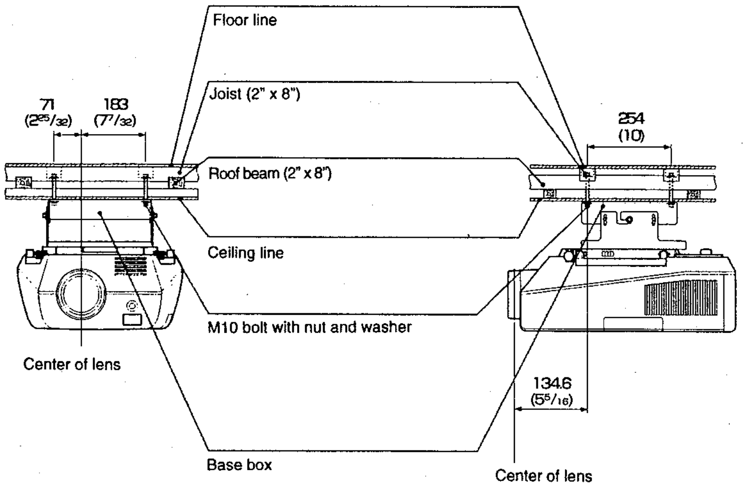
For wooden ceiling

For-one-story house or uppermost floor


Reinforcing material
Roof beam (2" x 8")
Ceiling line
M10 bolt with nut and washer
Base box
71 ($2^{25}/_{32}$)
183 ($7^{7}/_{32}$)
254 (10)
Nail
134.6 ($5^{5}/_{16}$)
Center of lens
Center of lens

Units : mm (inches)

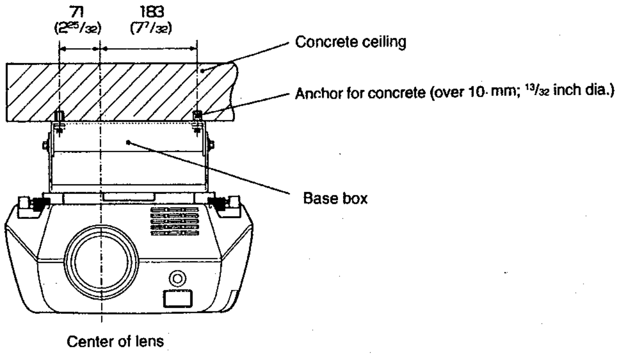
For other floors


Floor line
Joist (2" x 8")
Roof beam (2" x 8")
Ceiling line
M10 bolt with nut and washer
Base box
71 ($2^{25}/_{32}$)
183 ($7^{7}/_{32}$)
254 (10)
134.6 ($5^{5}/_{16}$)
Center of lens
Center of lens

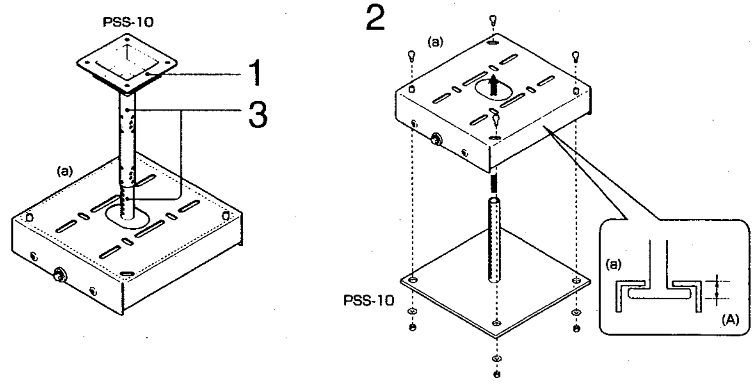
Units : mm (inches)

For concrete celing

Place bolts at least 80 mm (3 $^1/_4$ inches) away from wall.


71
($2^{25}/_{32}$)
183
($7^7/_{32}$)
Concrete ceiling
Anchor for concrete (over 10 mm; $^{13}/_{32}$ inch dia.)
Base box
Center of lens

Using PSS-800 and PSS-10


PSS-10
1
3
(a)
2
(a)
PSS-10
(a)
(A)

English

1 Attach the upper part of the PSS-10 to the ceiling. (See the PSS-10 installation manual for details.)

2 Insert the lower part of the PSS-10 into the hole in the base box and secure them using the M10 bolts, M10 washers, and M10 nuts supplied with the PSS-10.

3 Adjust the length and secure the upper and lower parts of the PSS-10. (See the PSS-10 installation manual for details.)

Note

The distance between the projector and the ceiling will be decreased by 5.5 mm ($^7/_{32}$ inch) (A) from the installation measurements of the PSS-10 when the PSS-800 and the PSS-10 are used together.

1-5. SU-PJ800 (INSTALLATION)

Overview

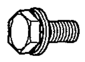
English

Maximum load: 30 × 2 kg (66 lb 2 oz × 2)

The SU-PJ800 projector stand (for twin stacking) is designed for use with Sony LCD Data projectors the VPL-S800U/M and VPL-V800Q/QM.

Caution
- For installation, consult with qualifies Sony personnel.
- The ceiling should be capable of supporting a weight of at least 450 kg (992 lb 1 oz); if not, the ceiling must be reinforced.
- When you attach the bracket directly to the ceiling, use commercially available M10 bolts with nuts and washers, depending on the ceiling. Use of other bolts, nuts, and washers other than M10 may present a danger of falling.
- Be sure to assemble and attach the bracket in the order indicated; otherwise the projector may fall.

Parts List

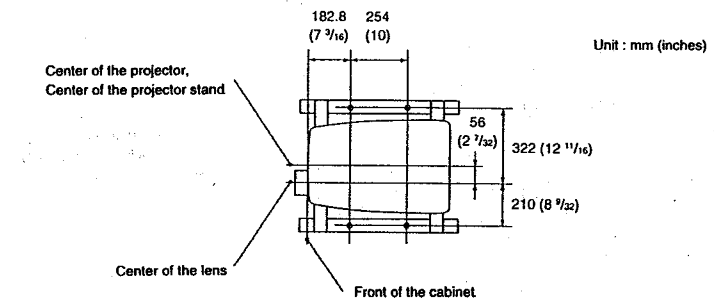
(a)	Hexagonal Bolt with washer M8 × 20 (8)	Parts number 4-058-721-01	

Installation Diagram

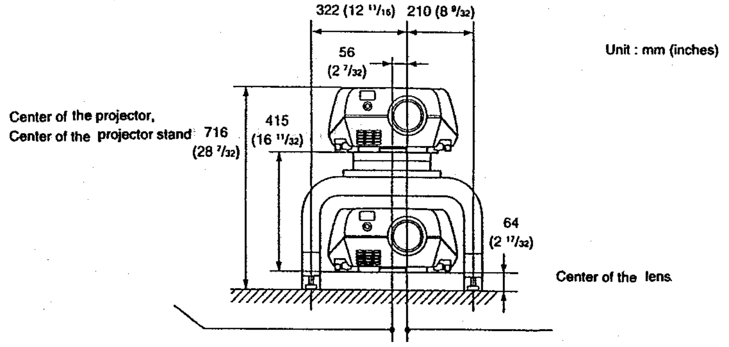
For details of screen size and installation measurement for projection, refer to the Installation Manual of the projector.

Installing on the floor or the table

Top view

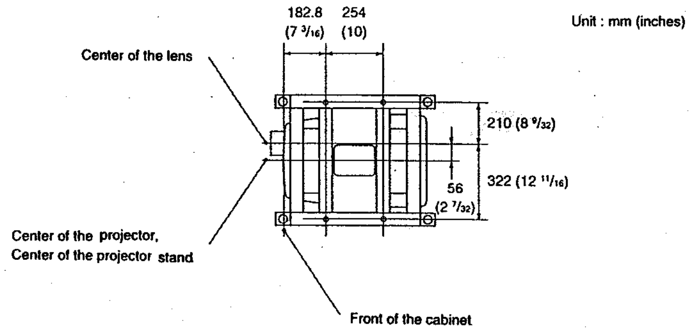

182.8 (7 3/16)
254 (10)
Unit : mm (inches)
Center of the projector,
Center of the projector stand
56 (2 7/32)
322 (12 11/16)
210 (8 9/32)
Center of the lens
Front of the cabinet

Front view

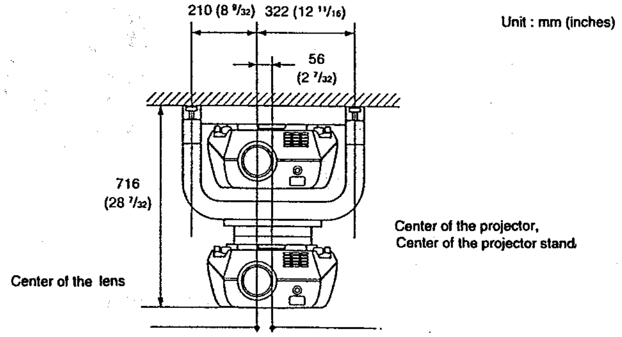

322 (12 11/16)
210 (8 9/32)
56 (2 7/32)
Unit : mm (inches)
Center of the projector,
Center of the projector stand
716 (28 7/32)
415 (16 11/32)
64 (2 17/32)
Center of the lens

Installing on the ceiling directly

Top view

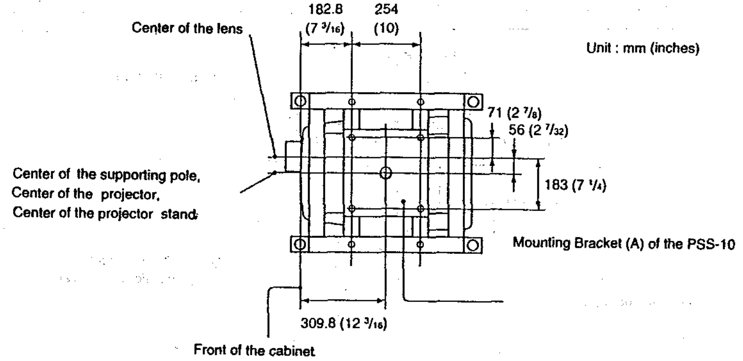

182.8 (7 3/16)
254 (10)
Unit : mm (inches)
Center of the lens
210 (8 9/32)
322 (12 11/16)
56 (2 7/32)
Center of the projector,
Center of the projector stand
Front of the cabinet

Front view

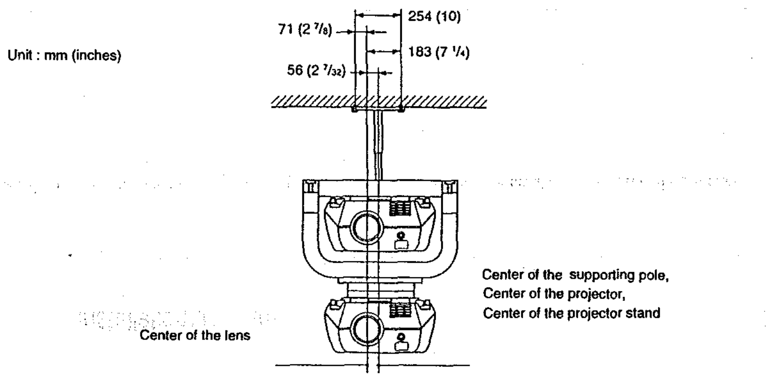

210 (8 9/32)
322 (12 11/16)
Unit : mm (inches)
56 (2 7/32)
716 (28 7/32)
Center of the projector,
Center of the projector stand
Center of the lens

Installing on the ceiling with the PSS-10 projector suspension support

Top view

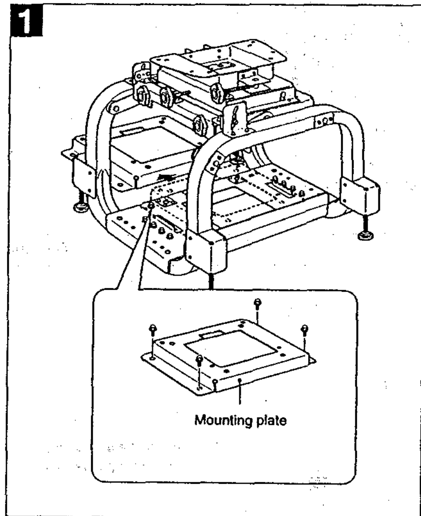

Center of the lens
182.8
(7 3/16)
254
(10)
Unit : mm (inches)
71 (2 7/8)
56 (2 7/32)
183 (7 1/4)
Center of the supporting pole,
Center of the projector,
Center of the projector stand
Mounting Bracket (A) of the PSS-10
309.8 (12 3/16)
Front of the cabinet

Front view

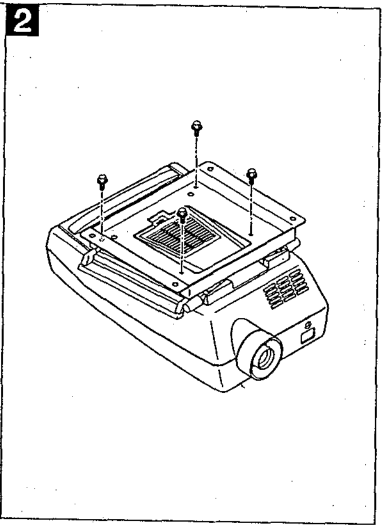

Unit : mm (inches)
71 (2 7/8)
254 (10)
183 (7 1/4)
56 (2 7/32)
Center of the supporting pole,
Center of the projector,
Center of the projector stand
Center of the lens

Installation

1


Mounting plate

2



English

1 Remove the mounting plate from the projector stand. Remove the four M8 × 20 bolts.

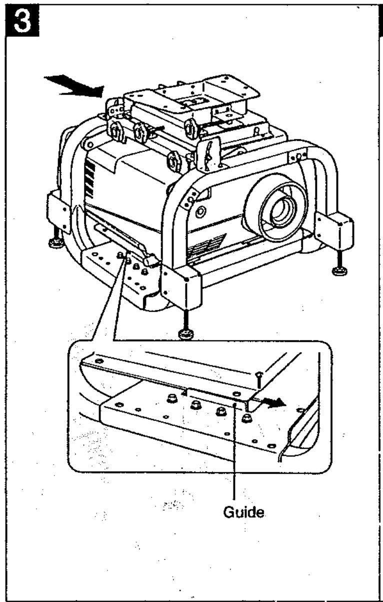
2 Turn over the first projector to be loaded on the lower tray, then turn over the mounting plate and attach it to the projector. Use four M8 × 20 bolts.

Note

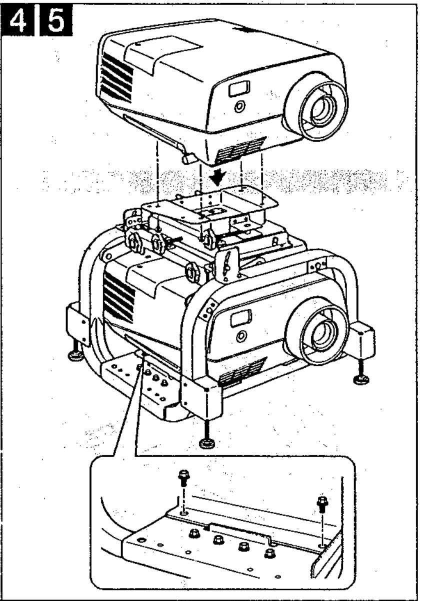
Set the projector on a stable, flat surface when attaching the mounting plate.

(Continued)

3



4 | 5



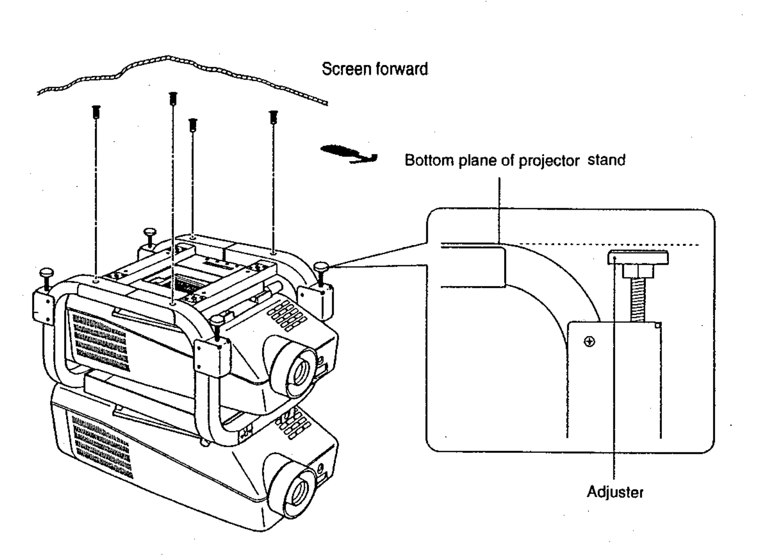
English

3 Return the projector with the mounting plate attached so that it faces in the original direction. Then, slide the projector into the lower tray of the projector stand from the rear, using the guides.

4 Slide the projector in until the mounting plate stops (the foremost position). Use four M8 × 20 bolts.

5 Attach the second projector to the upper tray. Use four M8 × 20 bolts.

Attaching to the ceiling



English

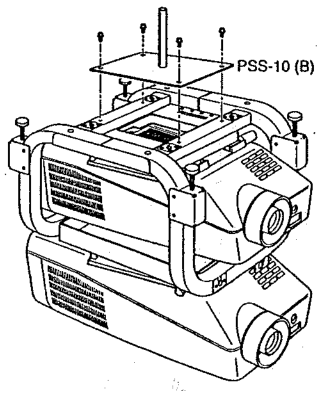
Turn over the projector stand after both projectors have finished being mounted, then attach the projector stand to the ceiling. Use M10 bolts and washers (commercially available).

Note

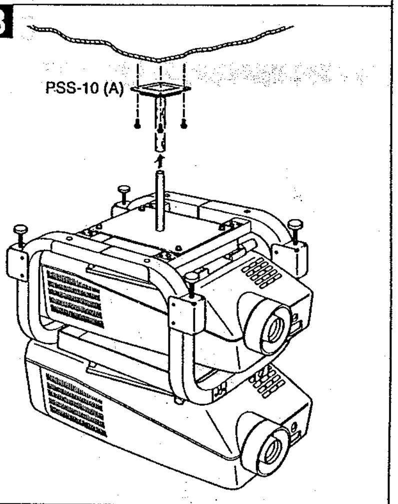
When attaching the projector stand to the ceiling, be sure to set the adjusters (feet used to stabilize the projector stand when set on the floor) so that they do not extend beyond the bottom plane of the projector stand.

Attaching the PSS-10 to the projector stand

1



2 3



English

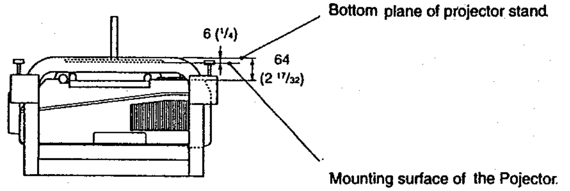
1 Attach the PSS-10 mounting bracket (B) (not supplied) to the bottom of the projector stand. Use M10 bolts, washers and spring washers.

2 Attach the PSS-10 mounting bracket (A) to the ceiling. Use M10 bolts, nuts and washers (commercially available).

3 Adjust the support column to the desired length, then fix it in place. *(For details, refer to the PSS-10 Installation Manual.)*

Note

If the PSS-10 is attached to the SU-PJ800, the PSS-10 mounting bracket will extend too far in from the bottom plane of the SU-PJ800. To prevent this, deduct 6 mm (¹/₄ inch) from the mounting measurements for the PSS-10.


Bottom plane of projector stand
6 (1/4)
64
(2 17/32)
Mounting surface of the Pojector.
Unit : mm (inches)

Aligning both projectors

English

Notes

- Do not look directly into the lens when projecting a picture.
- When adjusting with the Remote Commander, set a different index number on each projector, and designate the projector to be operated with the Remote Commander.

For details on setting the index number, refer to "To set the index number" on page 38 in the VPL-S800U/M Installation Manual or the VPL-V800Q/QM Installation Manual on page 32.

For details on the index function for the Remote Commander, refer to page 16 in theVPL-S800U/M or VPL-V800Q/QM Installation manual.

- When adjusting the focus, zoom, or picture shift, be sure to set the SWITCHER/INDEX/LENS selector on the Remote Commander to the LENS position.
- When installing the projector stand to the ceiling, set the length of the adjusters (stabilizer feet) not to extend beyond the bottom plane of the projector stand.

1 Press the MAIN POWER switches on the rear of the first and second projectors (▬ ON).

2 Press POWER ON key on the Remote Commander of the control panel for both projectors.
Enter the service mode in the case of VPL-S800U/M.

3 When using the VPL-S800U/M:
Put the lens cap on the second projector; press the PATTERN key for the first projector on the Remote Commander or the control panel to display the HATCH pattern.
When using the VPL-V800Q/QM:
Display the HATCH pattern or an image that shows small characters from the image device or signal generator that is connected to the first and second projector, then put the lens cap on the second projector.

Note

S-VGA signals can be connected to two projectors or adjusted for the VPL-S800U/M. In that case, turn OFF the scan converter, use the SHIFT of the INPUT SETTING menu of each projector in the same was as VPL-V800Q/QM, an adjust the image to the upper-left comer of screen, ensuring the image doesn't go off the screen.

(Continued to page 26)

English

4 Adjust the screen size using the ZOOM + or – key on the Remote Commander or the control panel, and adjust the vertical positioning using the SHIFT + or – key on the Remote Commander or the control panel to display the HATCH pattern properly.

For details on adjusting the picture, refer to "Adjusting the Picture" on page 47 in the VPL-S800U/M Installation Manual or refer to "Adjusting the Focus" on page 40 in the VPL-V800Q/QM Installation Manual.

5 Adjust the focus with the FOCUS + or – key on the Remote Commander or the control panel.

For details on adjusting the focus, refer to "Adjusting the Picture" on page 47 in the VPL-S800U/M Installation Manual or refer to "Adjusting the Focus" on page 40 in the VPL-V800Q/QM Installation manual.

6 Adjust the horizontal positioning of the HATCH pattern using the adjusters of the projector stand (stabilizer feet).

Notes

- If the HATCH pattern is not displayed properly on the screen, or is out of focus after the adjustments above, repeat steps **4** and **5** to adjust finely.
- Be sure not to readjust the first projector after completing the adjustments on the first projector. When aligning both pictures, adjust the second projector to align its picture with that of the first projector.

7 Remove the lens cap on the second projector, and put the lens cap on the first projector. Display the HATCH pattern from the second projector.

8 Repeat steps **4** and **5** on the second projector.

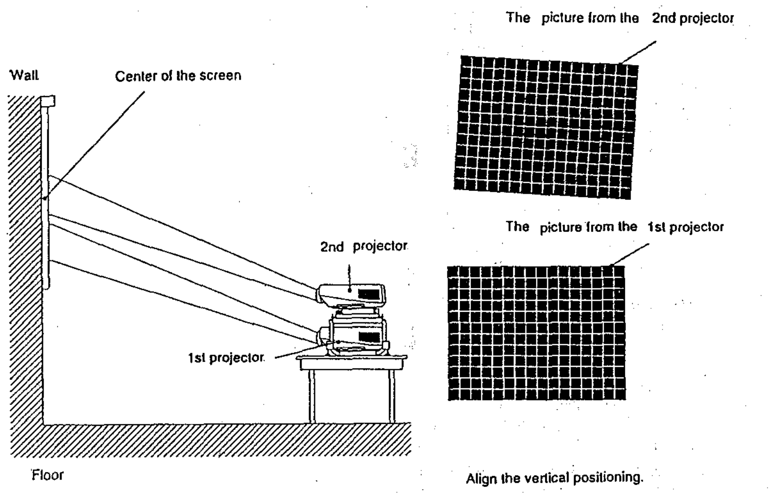
Note

Be sure not to readjust the focus after aligning both pictures.

9 Loosen all fixing screws.
See pages 32, 34 for the positions of these screws.

(Continued to page 30)

10


Wall
Center of the screen
2nd projector
1st projector
Floor
The picture from the 2nd projector
The picture from the 1st projector

Align the vertical positioning.

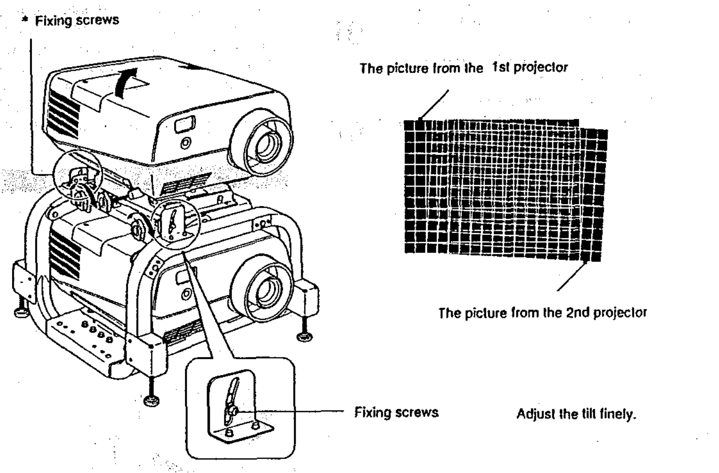
English

10 Remove the lens cap from the second projector, and align both pictures.
Fine adjust the following so that both pictures are aligned properly.

Vertical positioning	Adjust it using the SHIFT + or – key on the Remote Commander or the control panel.
Size	Adjust it using the ZOOM + or – key on the Remote Commander or the control panel.

(Continued)

11


* Fixing screws
The picture from the 1st projector
The picture from the 2nd projector
Fixing screws
Adjust the tilt finely.

* The Position of the fixing screws on rear side are the same as lens side.

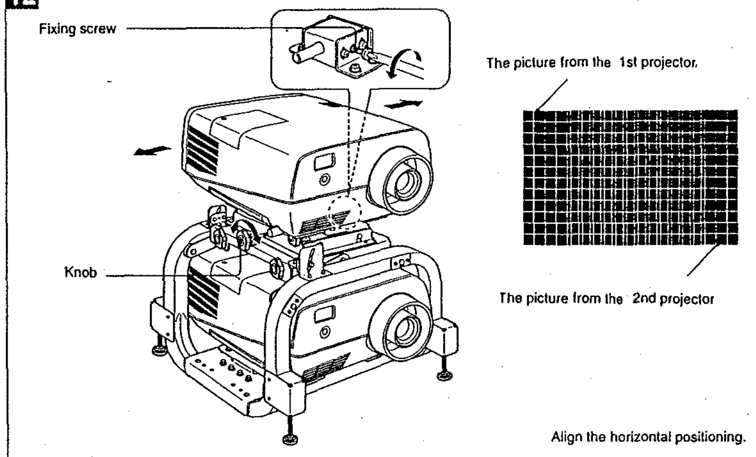
English

11 Turn the two left-right knobs to the left and right.
The second projector can have its tilt changed within a range of +30° to –5°. Turn the knob to the right to tilt the image of the second projector toward the upper right; turn the knob to the left to tilt the image toward to lower right.
Finely adjust the tilt of the image projected onto the screen.

To replace the lamp in the first projector:
Remove the (five) screws at two locations as illustrated above. This enables the second projector to tilt a maximum of +30° providing enough room to enable replacement.

(Continued)

12

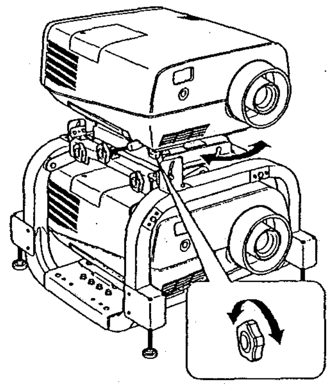

Fixing screw
Knob
The picture from the 1st projector.
The picture from the 2nd projector
Align the horizontal positioning.

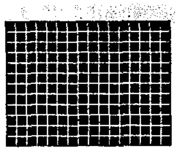
English

12 Turn the center knob to the left and right.
The second projector can be slid to the left or right, within a range of ±25 mm (1 inch). Turn the knob to the right to slide the image to the right; turn the knob to the left to slide the image to the left.
Adjust the left-right positioning of the image projected on the screen, to align the images from both projectors (in the horizontal direction).

(Continued)

13




The two pictures appear as one when aligned properly.

English

13 Turn the knob of the second projector to the left and right.
The second projector can be moved to the left or right, within a range of ± 5°. Turn the knob to the right to move the image to the right; turn it to the left to move the image to the left.
Adjust the left-right positioning of the image projected on the screen, to align the images from both projectors (in the horizontal direction).

14 After all fine adjustments are finished, tighten the fixing screws that were loosened in the step 9.

15 In the case of VPL-S800U/M, press the PATTERN keys for both projectors on the Remote Commander or the control panel to clear the HATCH patterns.

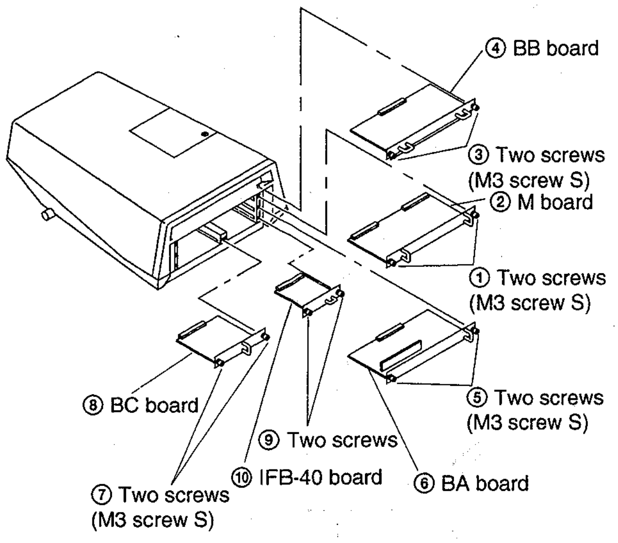
16 Project the input signals from the first and second projectors.
If the projected pictures are not aligned properly, check the following and adjust the settings.
①Make sure that all the settings in the INPUT SETTING menu are the same. If SCAN CONV is set to OFF, adjust DOT PHASE on both projectors.
②Adjust the H value of SHIFT in the INPUT SETTING menu.

Note

When adjusting one projector, put the lens cap on the other projector.

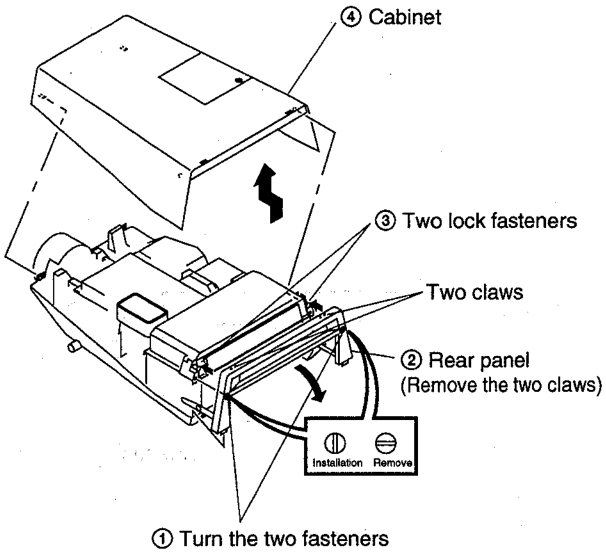
SECTION 2
DISASSEMBLY

2-1. BA, BB, BC, M AND IFB-40 BOARDS REMOVAL

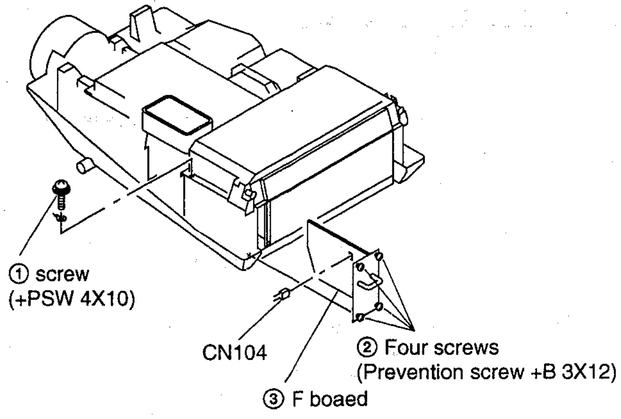

④ BB board
③ Two screws
(M3 screw S)
② M board
① Two screws
(M3 screw S)
⑤ Two screws
(M3 screw S)
⑧ BC board
⑨ Two screws
⑩ IFB-40 board
⑥ BA board
⑦ Two screws
(M3 screw S)

Note) Necessary to remove the M board before, when remove the BB board.

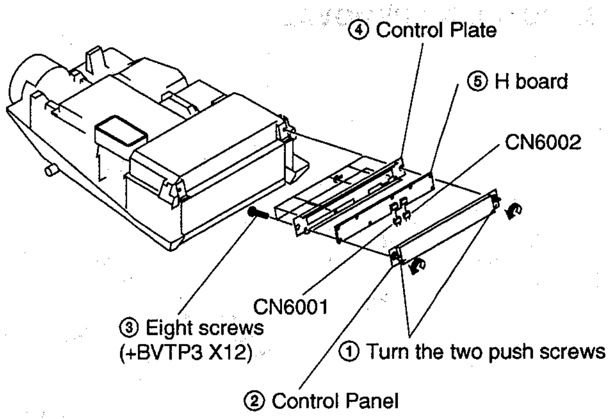
2-2. CABINET AND REAR PANEL REMOVAL


④ Cabinet
③ Two lock fasteners
Two claws
② Rear panel
(Remove the two claws)
Installation
Remove
① Turn the two fasteners

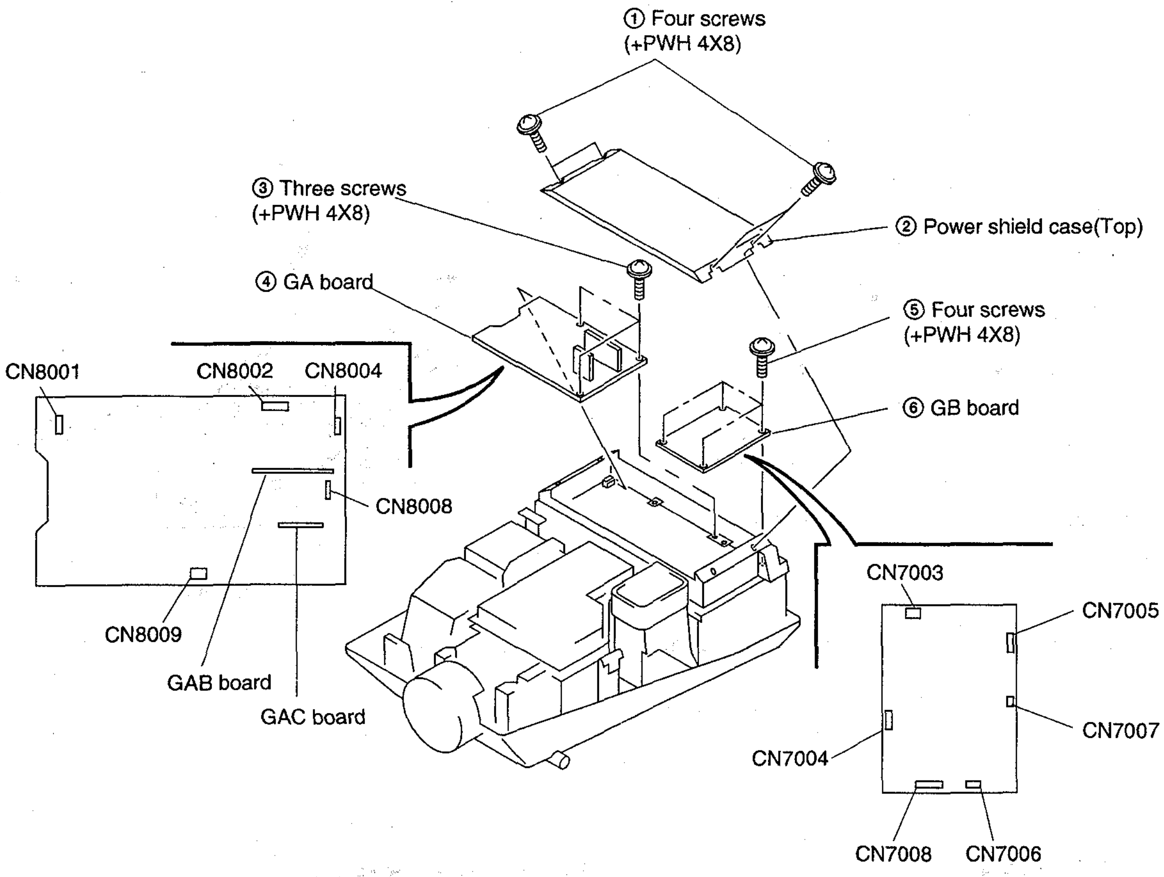
2-3. F BOARD REMOVAL


① screw
(+PSW 4X10)
CN104
② Four screws
(Prevention screw +B 3X12)
③ F boaed

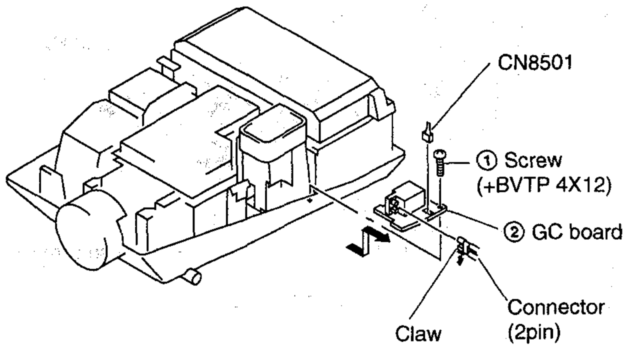
2-4. H BOARD REMOVAL


④ Control Plate
⑤ H board
CN6002
CN6001
③ Eight screws
(+BVTP3 X12)
① Turn the two push screws
② Control Panel

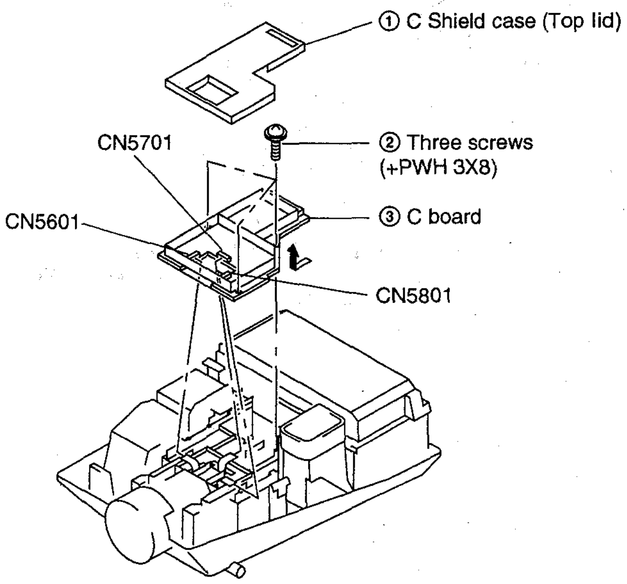
2-5. GA AND GB BOARDS REMOVAL


① Four screws
(+PWH 4X8)
③ Three screws
(+PWH 4X8)
② Power shield case(Top)
④ GA board
⑤ Four screws
(+PWH 4X8)
⑥ GB board
CN8001
CN8002
CN8004
CN8008
CN8009
GAB board
GAC board
CN7003
CN7005
CN7007
CN7004
CN7008
CN7006

2-6. GC BOARD REMOVAL

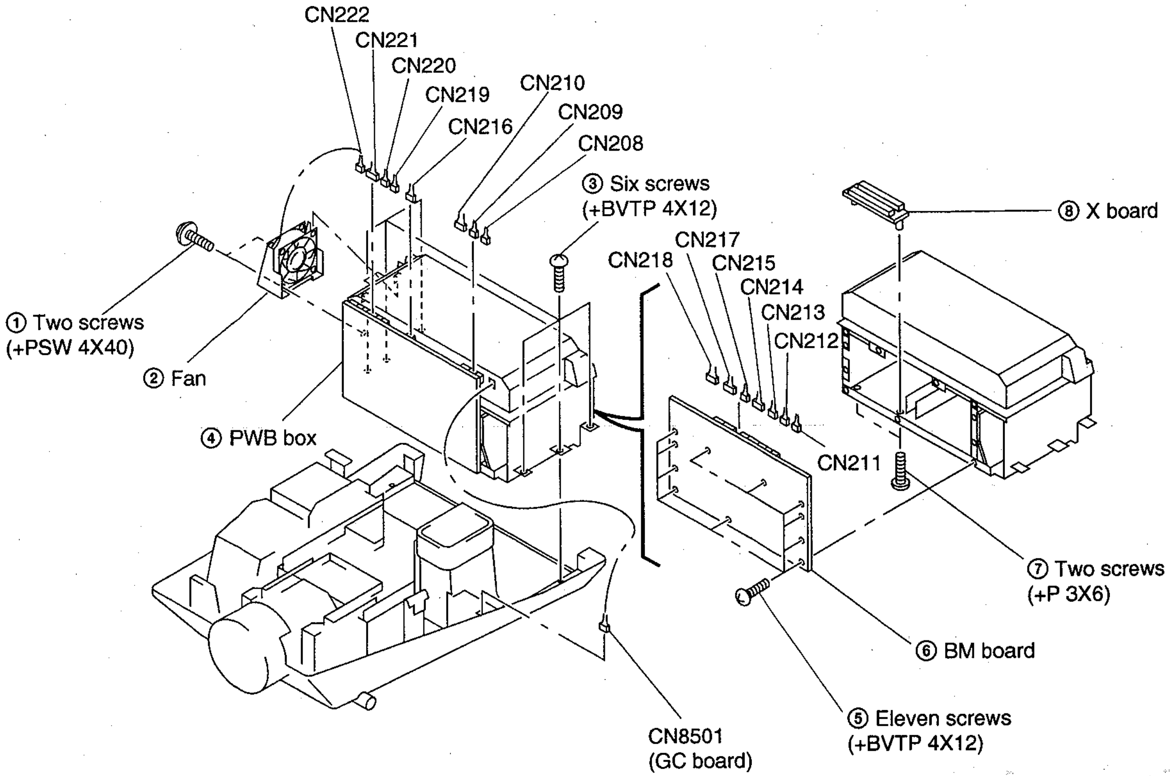

CN8501
① Screw
(+BVTP 4X12)
② GC board
Claw
Connector
(2pin)

2-7. C BOARD REMOVAL


① C Shield case (Top lid)
CN5701
② Three screws
(+PWH 3X8)
CN5601
③ C board
CN5801

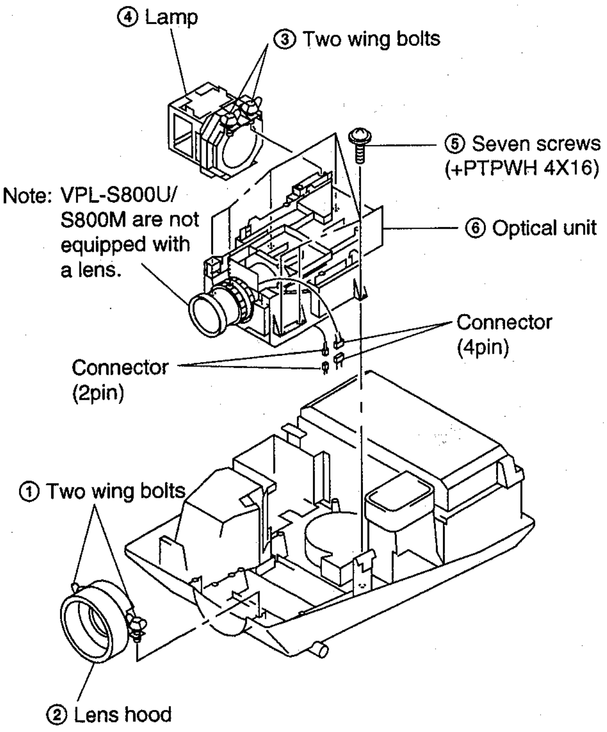
2-8. BM AND X BOARDS REMOVAL

*Remove the BA, BB, BC, M and IFB-40 boards.
Remove the C board.


CN222
CN221
CN220
CN219
CN216
CN210
CN209
CN208
③ Six screws
(+BVTP 4X12)
CN217
CN218
CN215
CN214
CN213
CN212
⑧ X board
① Two screws
(+PSW 4X40)
② Fan
④ PWB box
CN211
⑦ Two screws
(+P 3X6)
⑥ BM board
CN8501
(GC board)
⑤ Eleven screws
(+BVTP 4X12)

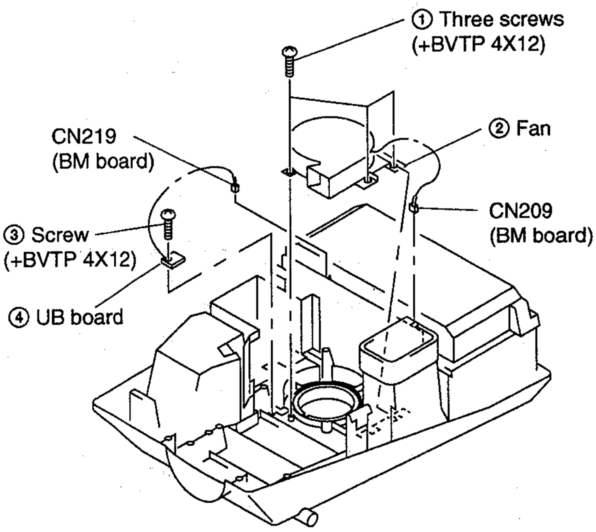
2-9. OPTICAL UNIT REMOVAL

*Remove the C board.

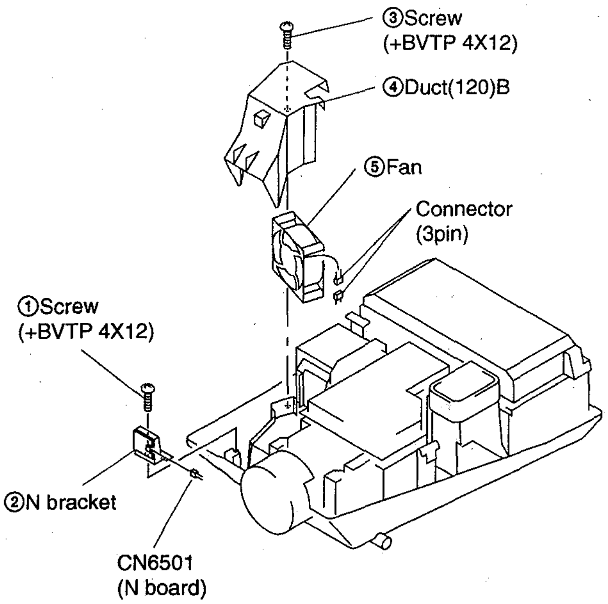

④ Lamp
③ Two wing bolts
⑤ Seven screws
(+PTPWH 4X16)
Note: VPL-S800U/
S800M are not
equipped with
a lens.
⑥ Optical unit
Connector
(4pin)
Connector
(2pin)
① Two wing bolts
② Lens hood

2-10. FAN AND UB BOARD REMOVAL

*Remove the optical unit.


① Three screws
(+BVTP 4X12)
CN219
(BM board)
② Fan
CN209
(BM board)
③ Screw
(+BVTP 4X12)
④ UB board

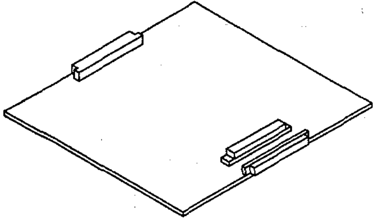
2-11. FAN REMOVAL


③Screw
(+BVTP 4X12)
④Duct(120)B
⑤Fan
Connector
(3pin)
①Screw
(+BVTP 4X12)
②N bracket
CN6501
(N board)

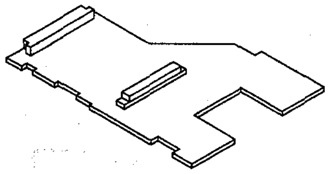
2-12. EXTENTION BOARD

Parts No. [ ]

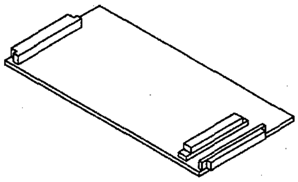
XA board (for BA, BB boards)
[A-1501-118-A]



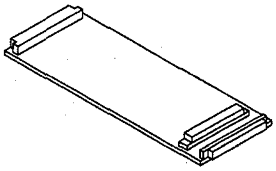
XD board (for C board)
[A-1501-121-A]



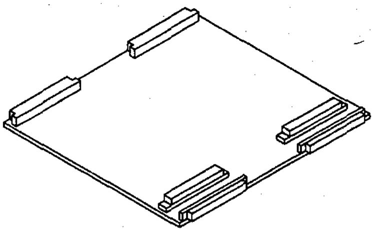
XC board (for BC board)
[A-1501-120-A]



XE board (for IFB-40 board)
[A-1501-122-A]



XB board (for M board)
[A-1501-119-A]

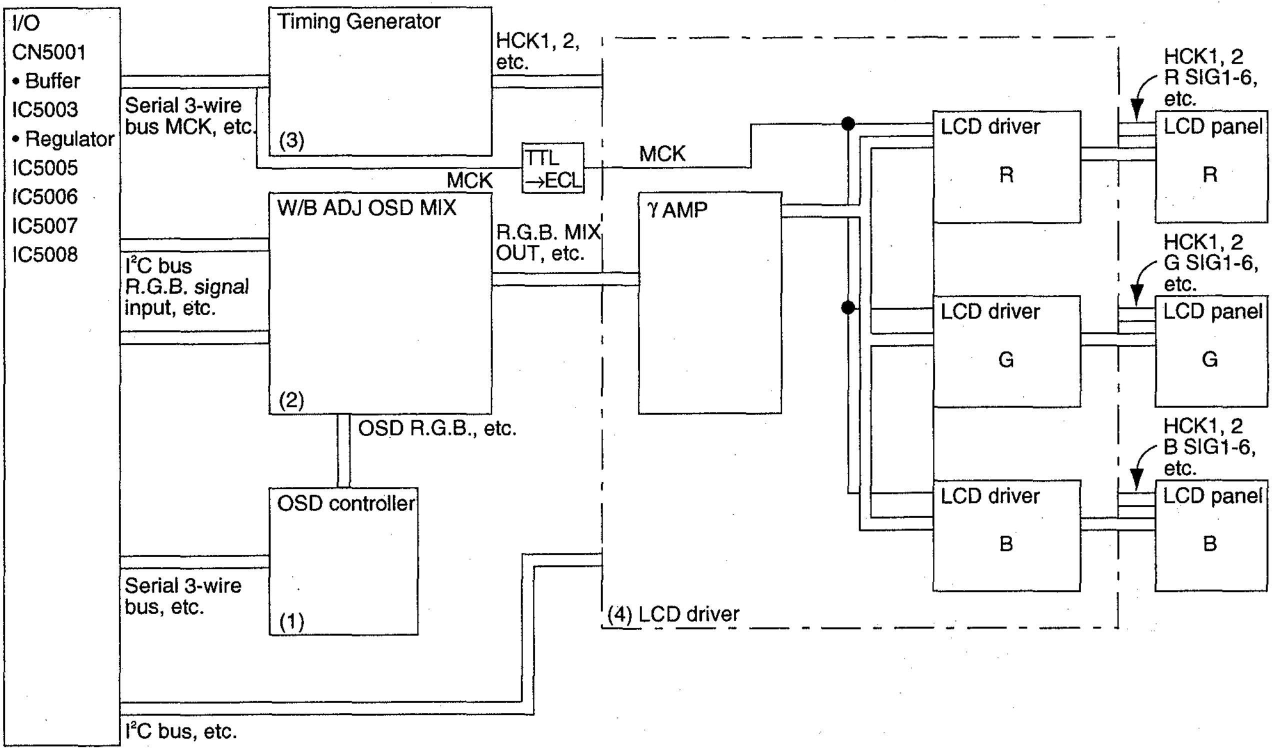


SECTION 3
THEORY OF CIRCUIT OPERATION

The theory of circuit operation of VPL-S800U/M are substituted for by that of VPL-V800Q/V800QM (9-922-639-51) for boards other than C and M boards described in this chapter. Refer to that as necessary.

3-1. THEORY OF C BOARD CIRCUIT OPERATION

1. Function block diagram

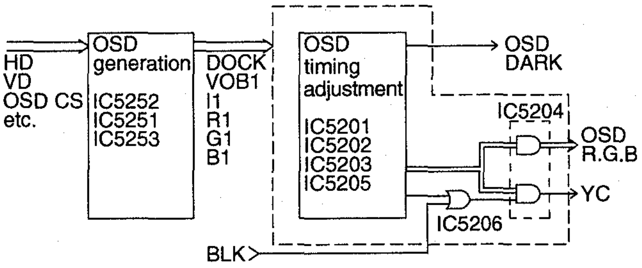


I/O
CN5001
• Buffer
IC5003
• Regulator
IC5005
IC5006
IC5007
IC5008
Serial 3-wire bus MCK, etc.
Timing Generator
(3)
HCK1, 2, etc.
TTL →ECL
MCK
MCK
W/B ADJ OSD MIX
(2)
R.G.B. MIX OUT, etc.
I²C bus R.G.B. signal input, etc.
OSD R.G.B., etc.
OSD controller
(1)
Serial 3-wire bus, etc.
I²C bus, etc.
γ AMP
LCD driver R
LCD driver G
LCD driver B
(4) LCD driver
HCK1, 2 R SIG1-6, etc.
LCD panel R
HCK1, 2 G SIG1-6, etc.
LCD panel G
HCK1, 2 B SIG1-6, etc.
LCD panel B

Fig.3-1

2. Major blocks

(1) OSD controller



HD
VD
OSD CS
etc.
OSD generation
IC5252
IC5251
IC5253
DOCK
VOB1
I1
R1
G1
B1
OSD timing adjustment
IC5201
IC5202
IC5203
IC5205
OSD DARK
IC5204
OSD R.G.B
YC
IC5206
BLK

Fig.3-2

- OSD generation
  Data in the internal ROM is read and loaded into IC5252 by the data set by the serial data from the M board, the starting positions of H and V are set, and DOCK, VOB1, I1, R1, G1, and B1 signals are output. TABLEROM (IC5251) and FONTROM (IC5253) are provided as external ROMs.

- OSD timing control
  I1, R1, G1, and B1 signals are input to FF that is preset by VOB1 for synchronization using DOCK as a clock. The gate circuit produces OSD DARK which is a timing signal that reduces the brightness of OSD, BLK which is a mute signal from DAC (IC5103), YC signal made by subjecting OSD blanking signal to OR processing, and OSD R.G.B. which are timing signals for respective colors of OSD.

(2) W/B ADJ, OSD MIX

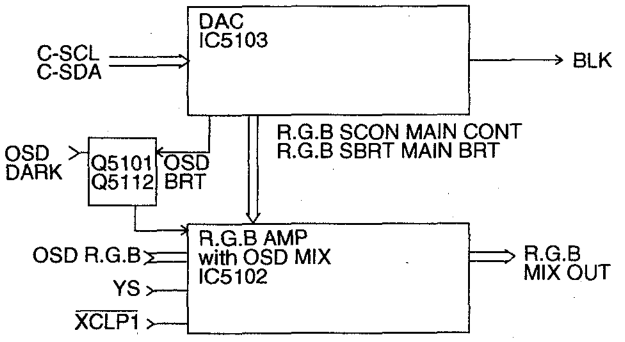


Fig.3-3

- W/B ADJ operation

  MAIN CONT (corresponding to the contrast parameter of the user control) of R.G.B. AMP (IC5102), MAIN BRT (corresponding to the bright parameter of the user control), R.G.B. SCON (corresponding to the GAIN parameter of W/B ADJ), and R.G.B. BRT (corresponding to the BIAS parameter of W/B ADJ) are set by controlling DAC (IC5103) by means of I²C.

- OSD MIX operation

  Input YS to BLK of R.G.B. AMP, and operation begins to extract video signals according to the OSD display timing. Screen mute is also conducted here.

  The timing signal, from which the video signal is extracted by YS, is made to display OSD by the OSD R.G.B. signal. The color display of OSD is changed from 8 to 15 and the brightness of OSD is adjusted by inputting a signal, which is made by synthesizing OSD DARK and OSD BRT (parameter of OSD BRT of DEVICE ADJ in the SERVICE FACTORY mode) after level change, to the terminal OSD ADJ of R.G.B. AMP used for adjusting the brightness of the OSD display.

(3) Timing Generator

Various timing pulses for driving the LCD panel are generated by setting a serial 3-wire bus in the timing generator IC (IC5302). Major pulses and their functions are shown below.

HCK1, 2	: Clock (synchronized with H) for driving the H-shift register of the LCD panel
HST	: Start pulse (positive-polarity signal synchronized with H) for driving the H-shift register of the LCD panel
PCG	: Uniformity improvement pulse (positive-polarity signal synchronized with H)
ENB	: Enable signal (negative-polarity signal synchronized with H) of the gate selection pulse of the LCD panel
VCK	: Clock (synchronized with V) for driving the V-shift register of the LCD panel
VST	: Clock (negative-polarity signal synchronized with V) for driving the V-shift register of the LCD panel

(4) LCD driver

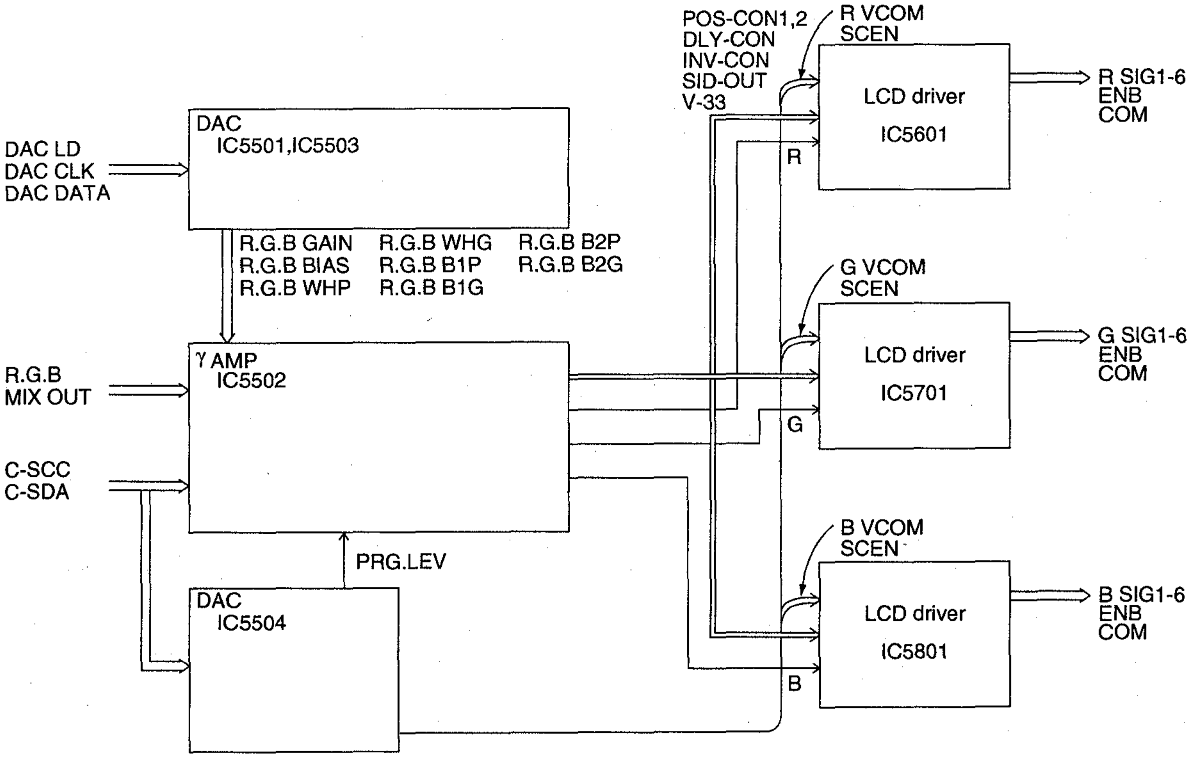

DAC LD
DAC CLK
DAC DATA
DAC
IC5501,IC5503
R.G.B GAIN
R.G.B BIAS
R.G.B WHP
R.G.B WHG
R.G.B B1P
R.G.B B1G
R.G.B B2P
R.G.B B2G
R.G.B
MIX OUT
γ AMP
IC5502
C-SCC
C-SDA
PRG.LEV
DAC
IC5504
POS-CON1,2
DLY-CON
INV-CON
SID-OUT
V-33
R VCOM
SCEN
LCD driver
IC5601
R
R SIG1-6
ENB
COM
G VCOM
SCEN
LCD driver
IC5701
G
G SIG1-6
ENB
COM
B VCOM
SCEN
LCD driver
IC5801
B
B SIG1-6
ENB
COM

Fig.3-4

- γ AMP

  This AMP is used for γ-correction by means of the DAC output controlled by the I²C bus and serial 3-wire bus.

  Respective parameters of γ are controlled by the serial 3-wire bus via DAC.

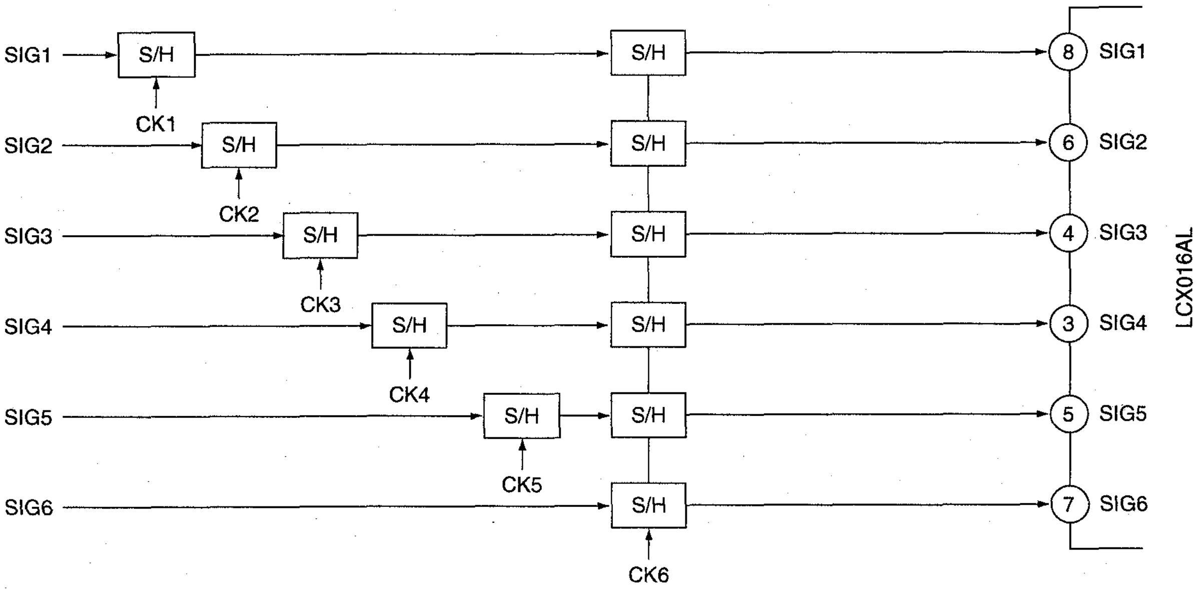
- LCD driver

  This driver is used for sample-holding the R.G.B. signals output from γ AMP to let them coincide with the 6-dot simultaneous sampling of the LCD panel and for line inversion. It also outputs precharge signals and Vcom voltage. (Refer to page 81 for the 6-dot simultaneous sampling.)

- 6-dot simultaneous sampling

Video signals SIG1-SIG6 are sampled simultaneously by the H-shift register. Accordingly, it is necessary to conduct external delay processing before inputting video signals to the panel so that the horizontal resolution will not be determined and match the phases of respective signals.

The block diagram of sample-holding in the delay processing is shown in Fig.3-5, which illustrates the phase setting for rightward scanning (RGT = High level). Change all phase settings in SIG1-SIG6 for leftward scanning (RGT = Low level).


SIG1
SIG2
SIG3
SIG4
SIG5
SIG6
S/H
CK1
CK2
CK3
CK4
CK5
CK6
8
6
4
3
5
7
LCX016AL

< Phases of sample-holding pulses for delay > (Rightward scanning)

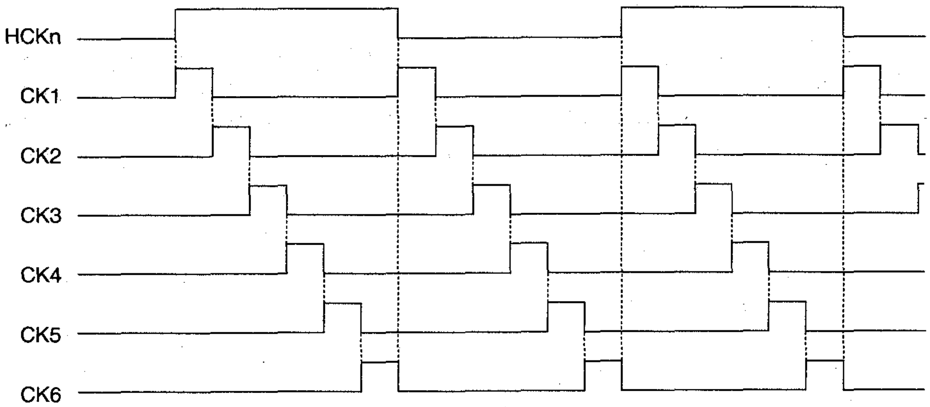

HCKn
CK1
CK2
CK3
CK4
CK5
CK6

Fig.3-5

3-2. THEORY OF M BOARD CIRCUIT OPERATION

The M board is divided into the following blocks:

1. General
2. Reset Circuit
3. Protector Circuit
4. SIRCS Circuit
5. SIRCS ENC Circuit
6. Remote Controller Power Circuit
7. POWER CONT Line
8. LAMP CONT Line
9. ROM Version

1. General

The MAIN microcomputer (IC2015) outputs chip select by means of IC2056, IC2013, and IC2016 for communication with other microcomputers and controlling peripheral ICs.

IC2008 is an exterior-type ROM (2Mbit UVEPROM) for the MAIN microcomputer. IC2002 is a Zero Power SRAM that stores the adjustment data and setting conditions of respective devices. Two I^{2}C buses control respective devices of the BA, BC, and C boards.

The OSD microcomputer (IC2023) transmits/receives data to/from the MAIN microcomputer via Dual Ports RAM (IC2025) and establishes communication with the SHT microcomputer by means of OSD (On Screen Display) control and the DMP bus.

The COMM microcomputer (IC2033) outputs chip select by means of IC2027, IC2030, IC2036, and IC2037 for transmission/reception of data to/from the MAIN microcomputer via Dual Ports RAM (IC2026), for communication with external personal computers via RS-422A terminals, and for SIRCS signal output by means of the SIRCS ENC microcomputer (IC2050). IC2031 is an external-type ROM (512Kbit UVEPROM) for the COMM microcomputer. ID numbers set by the rotary switch are read. (See Page85,86, Fig.3-6.)

2. Reset Circuit

The reset line is common to all CPUs and peripheral ICs. PC16550DV (IC2009 and IC2035) alone is reset by H, and others are reset by L. (See Page87, Fig.3-7.)

When any one of the ICs becomes out of control, no clock will be supplied to the watchdog timer (WDT) IC, and all ICs are reset simultaneously.The SHT microcomputer alone is reset by the OSD microcomputer even if the operation is normal.

3. Protector Circuit

When various kinds of errors are detected at the address decoders ⑥ to ⑨, as well as at ㉘ to ㉙pins, the MAIN microcomputer turns off the lamp, and cooling and other protector functions are activated. At the time of address decoder input, the L level is normal and the H level is abnormal. (See Page87, Fig.3-8.)

(1) Lamp cover protector

The lamp cover error is detected by the ⑧pin of the address decoder. When the protector is activated in the standby state, 11 blinks and the power cannot be turned ON. When the protector is activated while the power is ON, the lamp goes out, 11 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.)

When the lamp cover is closed normally, the error is removed.

(2) Filter cover protector

The filter cover error is detected by the ⑨pin of the address decoder. When the protector is activated in the standby state, 12blinks and the power cannot be turned ON. When the protector is activated while the power is ON, the lamp goes out, 12 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.)

When the lamp cover is closed normally, the error is removed.

(3) Set power supply protector

The set power supply error is detected by the ㉖pin of the address decoder. OR is conducted for the five power supplie æ D5V, 6.2V, 13.5V, 16.3V, and AUDIO+B. If the protector is activated when power is turned ON, 13 blinks on and off, and the power is turned OFF immediately. If the protector is activated when the power is ON, the lamp goes out, 13 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) The POWER ON key is invalid when an error is displayed.

(4) FAN protector

The FAN error is detected by the ⑦pin of the address decoder. OR is conducted for three FANs. If the protector is activated when power is turned ON, 14 blinks on and off, and the power is turned OFF immediately. If the protector is activated when power is ON, the lamp goes out, 14 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) The POWER ON key is invalid when an error is displayed.

(5) Lamp temperature protector

The lamp temperature error is detected by the ㉘pin of the address decoder. If the protector is activated when power is turned ON, 15 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. If the protector is activated when power is ON, a warning sentence is displayed on the OSD. When the error continues for more than five minutes, the lamp goes out, 15 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) The POWER ON key is invalid when an error is displayed.

(6) C board temperature protector

The C board temperature error is detected by the ㉗pin of the address decoder. A Shumitt IC is used because the C board output is analog. If the protector is activated when power is turned ON, 16 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. If the protector is activated when power is ON, a warning sentence is displayed on the OSD. When the error continues for more than five minutes, the lamp goes out, 16 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) The POWER ON key is invalid when an error is displayed.

(7) Power board temperature protector

The power board temperature error is detected by the ㉙pin of the address decoder. If the protector is activated when power is turned ON, 17 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. If the protector is activated when power is ON, 17 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) The POWER ON key is invalid when an error is displayed.

(8) LAMP protector

The LAMP error is detected by the ⑥pin of the address decoder. If the LAMP protector is activated when power is turned ON, retry is conducted approx. every 30 seconds three times in total. If lamp turning-on fails three times consecutively, 88 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. If the protector is activated when power is ON, 88 blinks on and off, cooling is conducted for two minutes, and the power is turned OFF. (Entering the standby state.) In the former case, the POWER ON key is valid when the main switch is turned on similar to the case of other errors, but in the latter case, the error will not be canceled and the power cannot be turned ON unless the clearing operation shown below is conducted.

Press the LIGHT key on the control panel, as well as 8, 8, and ENTER keys on the remote commander, at intervals of less than two seconds. The clearing operation is valid only when the LIGHT key on the control panel is pressed and the LIGHT on the control panel is lit.

4. SIRCS Circuit

An SIRCS light receiving unit is provided at the FRONT and REAR, respectively, and both are set in the ON position before shipment. To cope with noise due to fluorescent lamps, the light receiving section can be changed via the menu. In addition to the above, FRONT only and REAR only can be selected. Selection is conducted by IC2055(3/4) and IC2055(4/4). When H is input from the address decoder, the specified light receiving section turns ON. IC2052(1/2) unifies FRONT and REAR SIRCS signals. (See Page88, Fig.3-9.)

5. SIRCS ENC Circuit

When selection is made via the OSD (menu) or when data are input through the RS-422A terminal, the COMM microcomputer latches data in IC2049 and interrupts the SIRCS ENC microcomputer (IC2050). In this way, the SIRCS ENC microcomputer outputs SIRCS signals to the SIRCS line. Only when data are output, the analog switch IC2054 is turned OFF and the buffer IC2053 is turned ON to prevent collision of signals. (See Page88, Fig.3-9.)

6. Remote Control Power Circuit

SUB5V supplies power when the remote controller is used in the wired system. The current flowing through R2195 is monitored, and when current exceeding the specified value flows, the transistor switch Q2023 is turned OFF to prevent overcurrent. When the LIGHT of the remote controller is OFF, the specified value I_1 is approx. 60 mA, and when the LIGHT is ON, the specified value I_2 is approx. 400 mA.

Regulate RV2001 in order to remove the load from the power line of CONTROL-S IN so that the output from IC2038(1/2) will be 0 (30 mV ± 10 mV).

Since the voltage drop at R2195 is small, the voltage between the two terminals is 33-fold amplified by IC2038(1/2). IC2038(2/2) is a comparator. When the output of IC2038(1/2) is smaller than the specified value, the output of IC2038(2/2) is H. Therefore, the driver Q2021 and switch Q2023 are ON, and power supply is possible.

When the LIGHT ON command from the wired remote controller is received, the (155) pin (WRCL output) of the address decoder IC2016 will be H for 1 second. Then Q2016 and Q2018 turn ON, and the specified value changes to I_2. IC2042(1/4) is a comparator in which the output is reversed when current exceeding approx. 100 mA flows to the power output. When the remote controller current consumption exceeds that value during that 1 second, IC2042(1/4) keeps Q2018 ON, and that state is kept. When the remote controller LIGHT turns OFF after the specified time has passed, the current consumption will be below 100 mA. Then the output of IC2042(1/4) returns to the original value, and the specified value will also return to I_1.

When overcurrent is generated and the output of IC2038(1/2) exceeds the specified value, the output of IC2038(2/2) will become L, and the driver Q2021 and switch Q2023 turn OFF. When the switch Q2023 turns OFF, the overcurrent is canceled, and the circuit is reset. However, when overcurrent continues, the switch Q2023 will continuously repeat ON/OFF.

IC2042 and IC2046 are circuits to set the time at which the switches completely turn OFF in order to hold down the load on Q2023. When the output of IC2038(2/2) becomes L, Q2032 turns OFF, and the output of D.FF (IC2046) becomes H. Therefore, IC2043(3/4) sets the OFF time (approx. 410ms), and IC2042(4/4) sets the ON time (approx. 64ms).

When overcurrent flows while the specified value is I_2, the output of IC2038(1/2) becomes L. At that time, IC2042(1/4) is forcibly reset by IC2042(2/4), and the specified value will also be reset at I_1. (See Page89, Fig.3-10.)

7. POWER CONT Line

When the POWER ON key on the control panel is pressed or when POWER ON SIRCS signals are received, those signals are input to the SHT microcomputer tentatively. Then they enter the OSD microcomputer through the DMP bus, and they are transmitted to the MAIN microcomputer via the dual port RAM later. The MAIN microcomputer accesses the address decoder (IC2016), and the ㊴pin (POWER CONT) becomes H.

The POWER CONT line enters the C28-pin of CN3001 (CN206 on the mother board) on the BB board via the C6-pin of CN2001 (CN204 on the mother board) on the M board. After passing through the BB board, the POWER CONT line passes through C30-pin, reaching the ⑤pin of CN213 on the mother board, and are input to the power supply from there.

(See Page89, Fig.3-11.)

8. LAMP CONT Line

Approx. 2 seconds after the POWER CONT line becomes H, the MAIN microcomputer makes the (75)pin of the address decoder (IC2016) H.

The LAMP CONT line enters the ④pin of CN221 on the mother board via the A5-pin of CN2001 (CN204 on the mother board) on the M board. Then the LAMP CONT line returns to the ③pin of CN221 through the temperature fuse (F6801) on the V board and is connected to the ①pin of CN211 on the mother board, being input to the power supply from there.

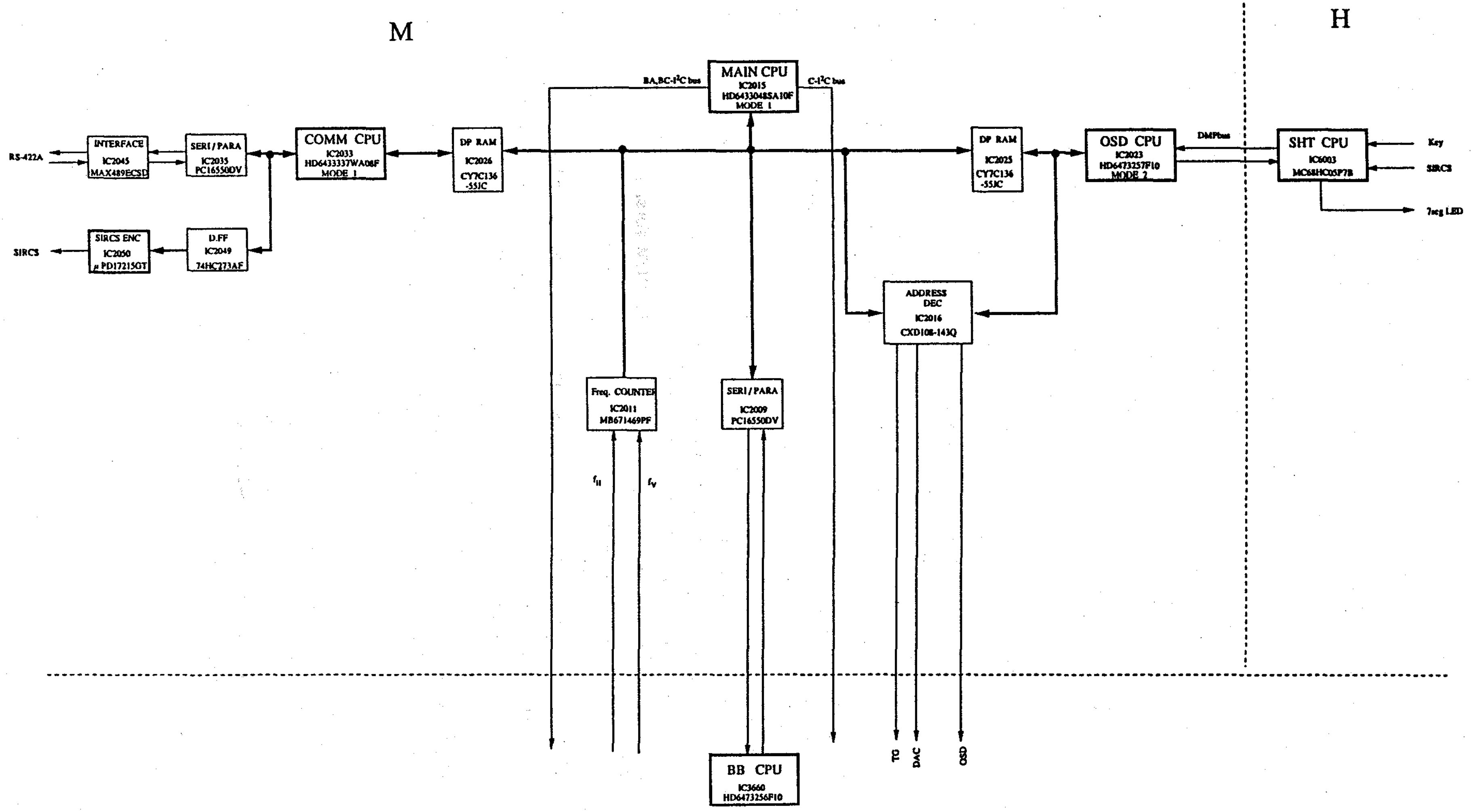
(See Page89, Fig.3-12.)

9. ROM Version

The ROM version is indicated in the SET INFO on the second page of the menu (service mode).

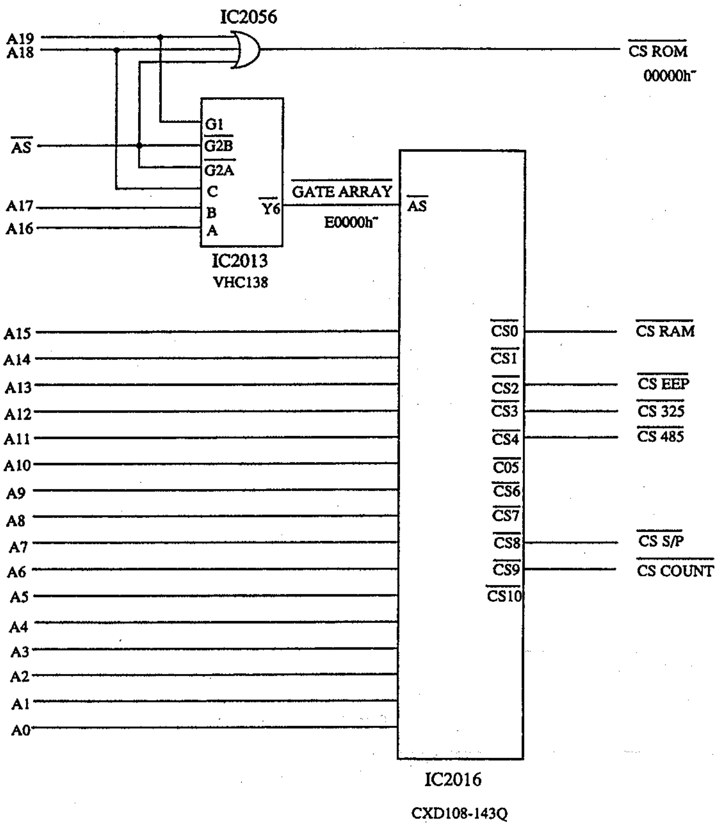
M, S1, S2, and S3 means the versions of MAIN ROM, OSD microcomputer, COMM microcomputer, and BB microcomputer, respectively.

Fig.3-6 (a) OUTLINE OF M BOARD CIRCUIT OPERATION



M
H
MAIN CPU
IC2015
HD6433048SA10F
MODE 1
BA,BC-I²C bus
C-I²C bus
COMM CPU
IC2033
HD6433337WA06F
MODE 1
DP RAM
IC2026
CY7C136
-55JC
DP RAM
IC2025
CY7C136
-55JC
OSD CPU
IC2023
HD6473257F10
MODE 2
DMPbus
SHT CPU
IC6003
MC68HC05P7B
Key
SIRCS
7seg LED
INTERFACE
IC2045
MAX489ECSD
RS-422A
SERI/PARA
IC2035
PC16550DV
SIRCS ENC
IC2050
μPD17215GT
SIRCS
D.FF
IC2049
74HC273AF
ADDRESS
DEC
IC2016
CXD108-143Q
TG
DAC
OSD
Freq. COUNTER
IC2011
MB671469PF
fH
fV
SERI/PARA
IC2009
PC16550DV
BB CPU
IC3660
HD6473256F10

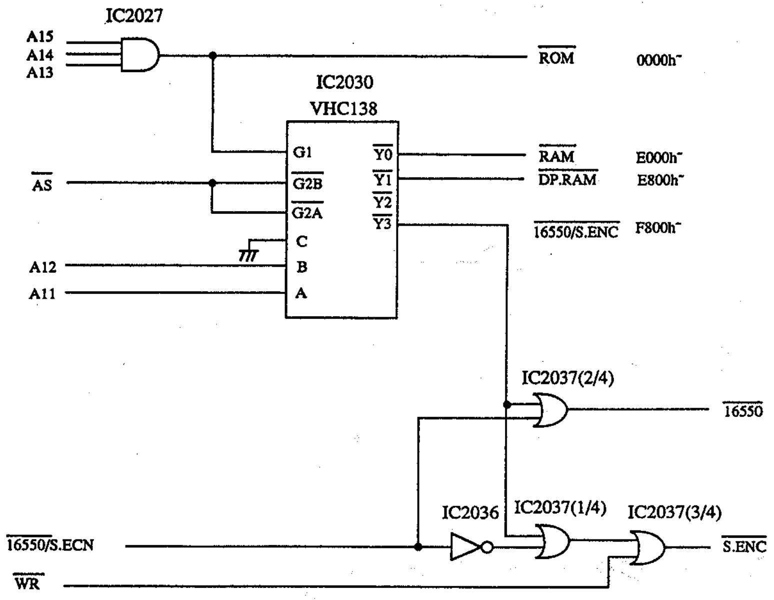
Fig.3-6 (b) MAIN CPU CHIP SELECT


IC2056
A19
A18
CS ROM
00000h~
G1
G2B
G2A
C
B
A
Y6
AS
A17
A16
GATE ARRAY
E0000h~
AS
IC2013
VHC138
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
CS0
CS1
CS2
CS3
CS4
C05
CS6
CS7
CS8
CS9
CS10
CS RAM
CS EEP
CS 325
CS 485
CS S/P
CS COUNT
IC2016
CXD108-143Q

VHC138

C	B	A	$\overline{Y}$
H	H	L	$\overline{Y6}$

Fig.3-6. (c) COMMUNICATION CPU CHIP SELECT


IC2027
A15
A14
A13
ROM
0000h~
IC2030
VHC138
G1
G2B
G2A
C
B
A
Y0
Y1
Y2
Y3
AS
A12
A11
RAM
DP.RAM
16550/S.ENC
E000h~
E800h~
F800h~
IC2037(2/4)
16550
IC2036
IC2037(1/4)
IC2037(3/4)
16550/S.ECN
WR
S.ENC

VHC138

C	B	A	$\overline{Y}$
L	L	L	$\overline{Y0}$
L	L	H	$\overline{Y1}$
L	H	L	$\overline{Y2}$
L	H	H	$\overline{Y3}$

Fig. 3-7 RESET

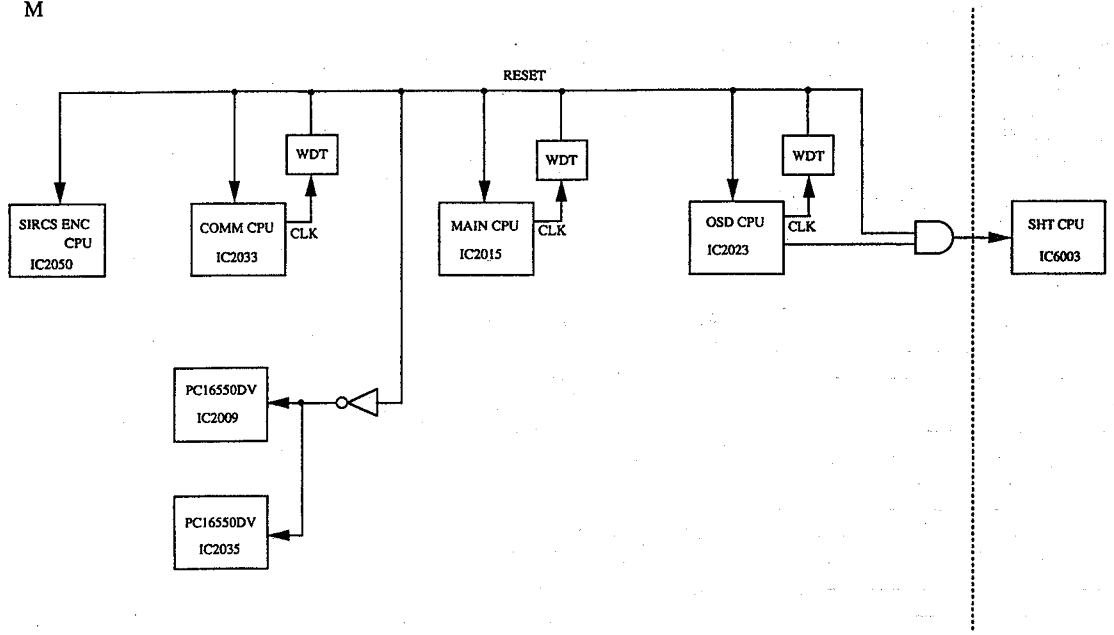

M
H
RESET
WDT
WDT
WDT
SIRCS ENC CPU IC2050
COMM CPU IC2033
CLK
MAIN CPU IC2015
CLK
OSD CPU IC2023
CLK
SHT CPU IC6003
PC16550DV IC2009
PC16550DV IC2035

Fig. 3-8 PROTECTOR

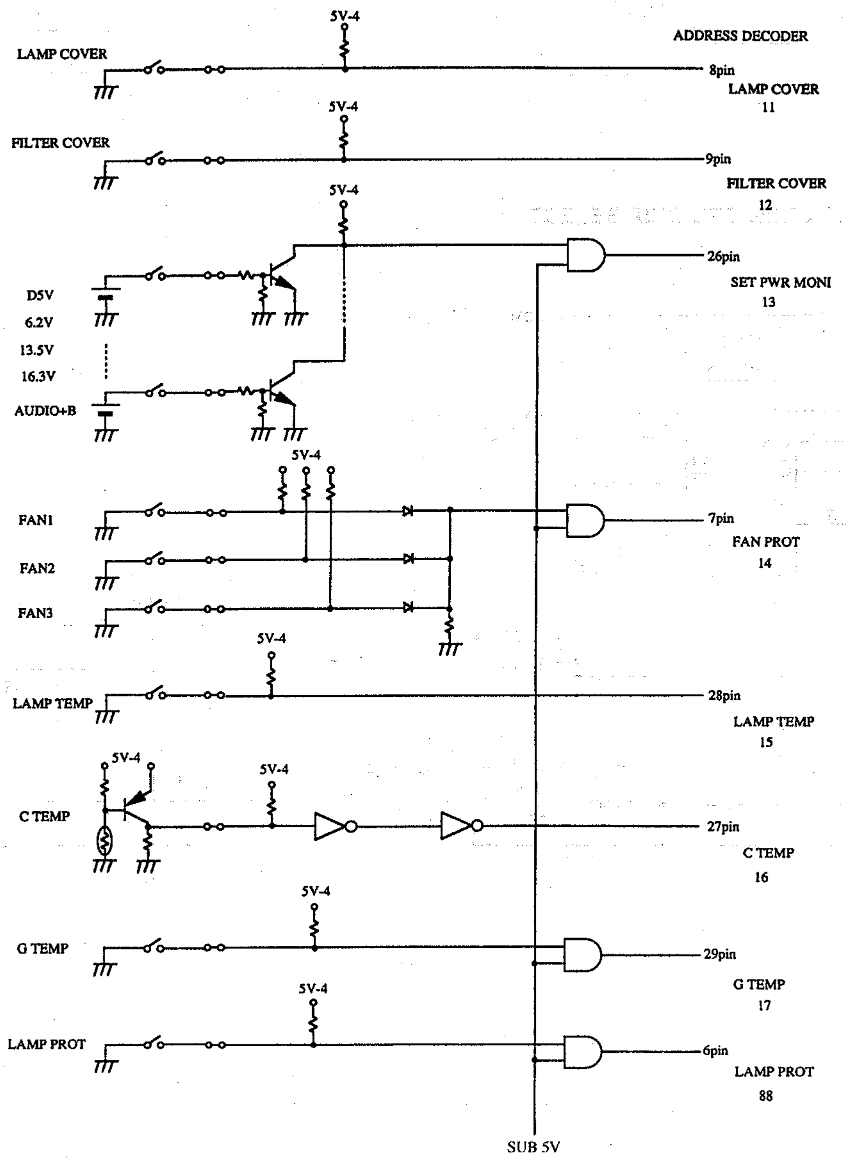

LAMP COVER
5V-4
ADDRESS DECODER
8pin
LAMP COVER
11
FILTER COVER
5V-4
9pin
FILTER COVER
12
5V-4
26pin
SET PWR MONI
13
D5V
6.2V
13.5V
16.3V
AUDIO+B
5V-4
FAN1
FAN2
FAN3
7pin
FAN PROT
14
5V-4
LAMP TEMP
28pin
LAMP TEMP
15
5V-4
5V-4
C TEMP
27pin
C TEMP
16
5V-4
G TEMP
29pin
G TEMP
17
5V-4
LAMP PROT
6pin
LAMP PROT
88
SUB 5V

Fig. 3-9 SIRCS SIGNAL FLOW

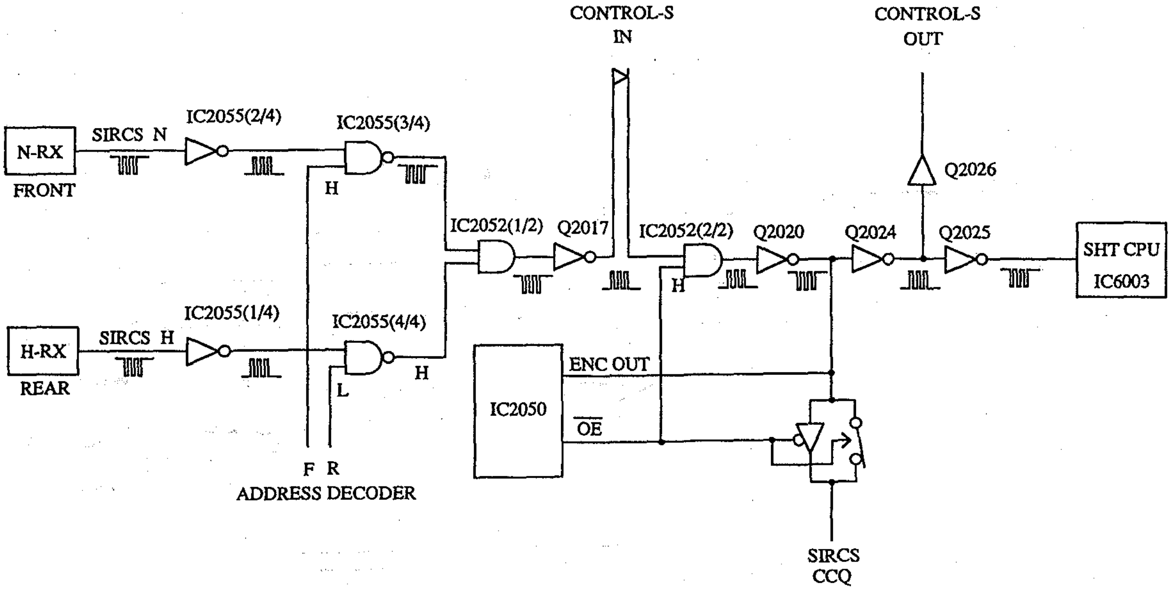

CONTROL-S
IN
CONTROL-S
OUT
IC2055(2/4)
IC2055(3/4)
N-RX
FRONT
SIRCS N
H
Q2026
IC2052(1/2)
Q2017
IC2052(2/2)
Q2020
Q2024
Q2025
SHT CPU
IC6003
H
IC2055(1/4)
IC2055(4/4)
H-RX
REAR
SIRCS H
H
L
ENC OUT
IC2050
OE
F R
ADDRESS DECODER
SIRCS
CCQ

Fig. 3-10 REMOTE CONTROLLER POWER BLOCK DIAGRAM

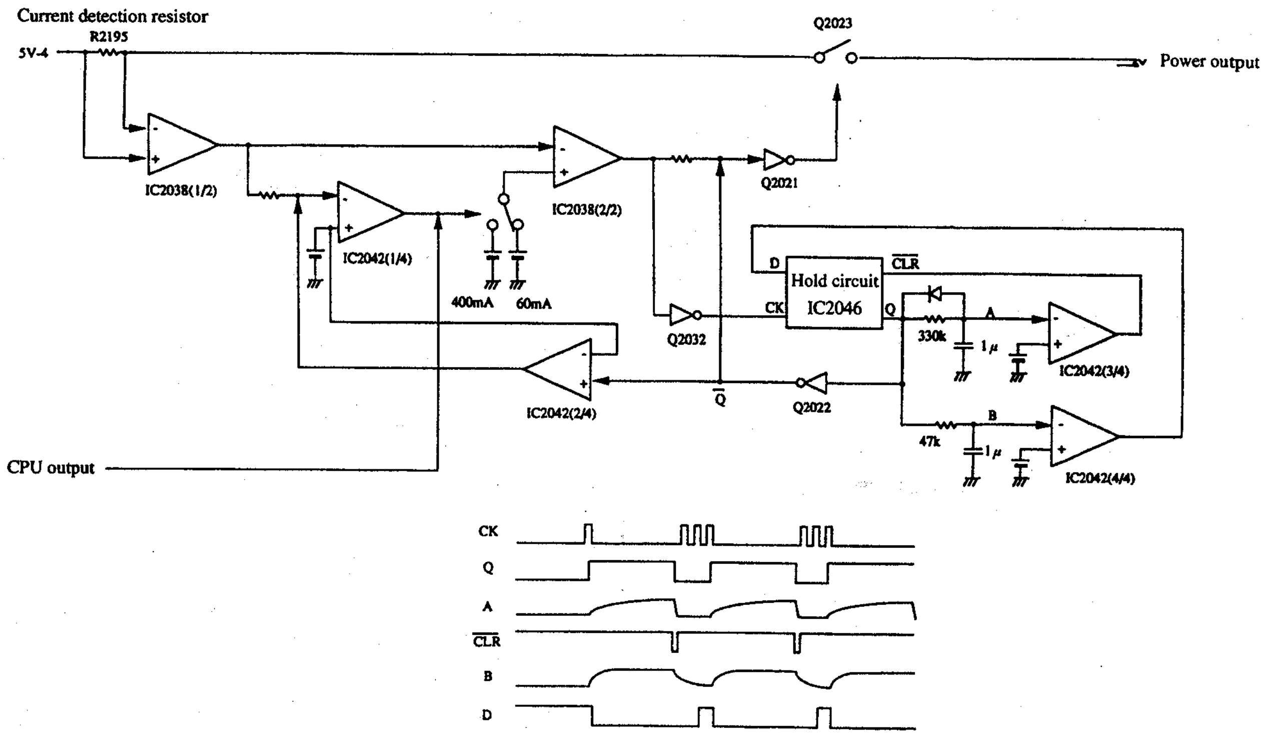

Current detection resistor
R2195
5V-4
Q2023
Power output
IC2038(1/2)
IC2038(2/2)
IC2042(1/4)
Q2021
400mA
60mA
D
Hold circuit
IC2046
CK
Q
CLR
Q2032
330k
1 μ
A
IC2042(3/4)
IC2042(2/4)
Q̄
Q2022
B
47k
1 μ
IC2042(4/4)
CPU output
CK
Q
A
CLR
B
D

Fig. 3-11 POWER CONT LINE

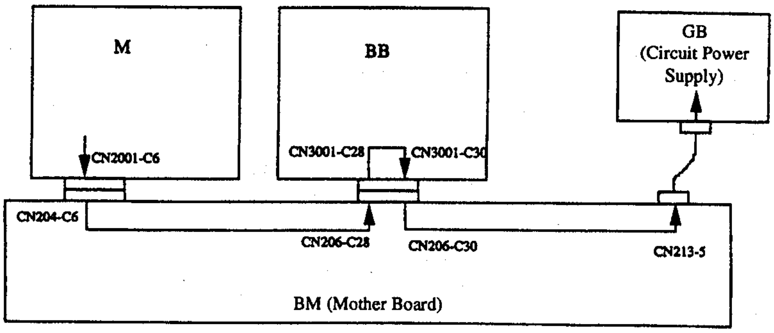
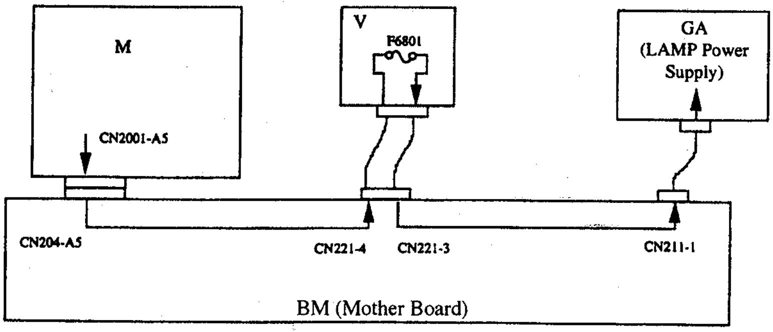
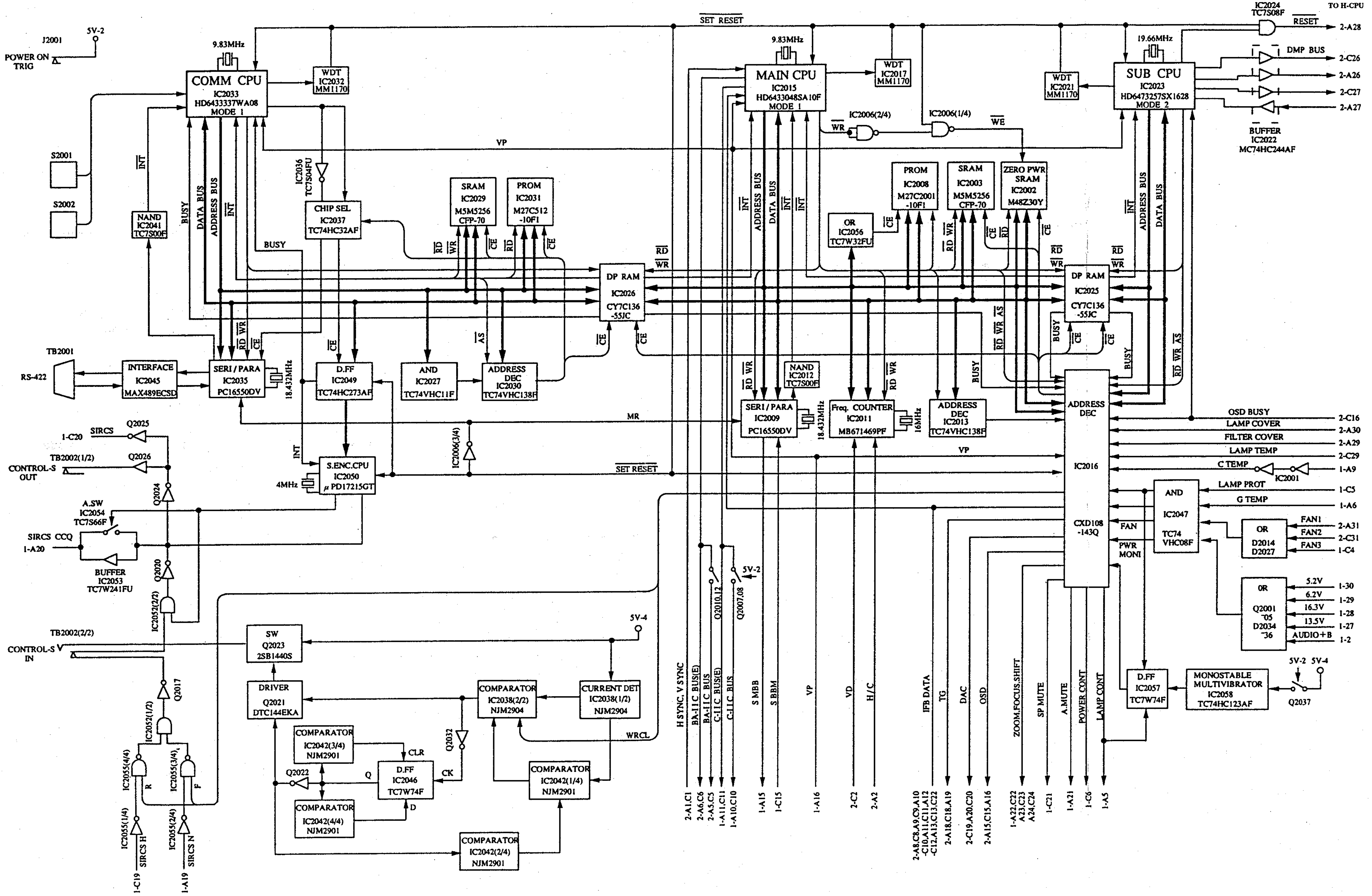

M
BB
GB
(Circuit Power
Supply)
CN2001-C6
CN3001-C28
CN3001-C30
CN204-C6
CN206-C28
CN206-C30
CN213-5
BM (Mother Board)

Fig. 3-12 LAMP CONT LINE


M
V
F6801
GA
(LAMP Power
Supply)
CN2001-A5
CN204-A5
CN221-4
CN221-3
CN211-1
BM (Mother Board)

M BOARD BLOCK DIAGRAM


J2001
5V-2
POWER ON TRIG
S2001
S2002
INT
NAND IC2041 TC7S00F
BUSY
DATA BUS
ADDRESS BUS
9.83MHz
COMM CPU IC2033 HD6433337WA08 MODE 1
WDT IC2032 MM1170
IC2036 TC7S04FU
CHIP SEL IC2037 TC74HC32AF
SRAM IC2029 M5M5256 CFP-70
PROM IC2031 M27C512 -10F1
RD
WR
CE
AS
VP
SET RESET
DP RAM IC2026 CY7C136 -55JC
TB2001
RS-422
INTERFACE IC2045 MAX489ECSD
SERI / PARA IC2035 PC16550DV
18.432MHz
D.FF IC2049 TC74HC273AF
AND IC2027 TC74VHC11F
ADDRESS DEC IC2030 TC74VHC138F
MR
IC2006(3/4)
S.ENC.CPU IC2050 μ PD17215GT
4MHz
1-C20
SIRCS
Q2025
TB2002(1/2)
Q2026
CONTROL-S OUT
Q2024
A.SW IC2054 TC7S66F
SIRCS CCQ
1-A20
BUFFER IC2053 TC7W241FU
Q2020
IC2052(2/2)
TB2002(2/2)
CONTROL-S IN
Q2017
IC2052(1/2)
IC2055(4/4)
IC2055(3/4)
R
P
IC2055(1/4)
IC2055(2/4)
SIRCS H
SIRCS N
1-C19
1-A19
SW Q2023 2SB1440S
DRIVER Q2021 DTC144EKA
COMPARATOR IC2042(3/4) NJM2901
COMPARATOR IC2042(4/4) NJM2901
Q2022
Q
CLR
D.FF IC2046 TC7W74F
CK
D
Q2032
COMPARATOR IC2038(2/2) NJM2904
CURRENT DET IC2038(1/2) NJM2904
5V-4
WRCL
COMPARATOR IC2042(1/4) NJM2901
COMPARATOR IC2042(2/4) NJM2901
9.83MHz
MAIN CPU IC2015 HD6433048SA10F MODE 1
WDT IC2017 MM1170
IC2006(2/4)
IC2006(1/4)
WE
PROM IC2008 M27C2001 -10F1
SRAM IC2003 M5M5256 CFP-70
ZERO PWR SRAM IC2002 M48Z30Y
OR IC2056 TC7W32FU
NAND IC2012 TC7S00F
SERI / PARA IC2009 PC16550DV
18.432MHz
Freq. COUNTER IC2011 MB671469PF
16MHz
ADDRESS DEC IC2013 TC74VHC138F
Q2010,12
Q2007,08
5V-2
H SYNC, V SYNC
BA-I 1 C BUS(E)
BA-I 1 C BUS
C-I 1 C BUS(E)
C-I 1 C BUS
S MBB
S BBM
VP
VD
H/C
IFB DATA
TG
DAC
OSD
ZOOM,FOCUS,SHIFT
SP MUTE
A.MUTE
POWER CONT
LAMP CONT
2-A1,C1
2-A6,C6
2-A5,C5
1-A11,C11
1-A10,C10
1-A15
1-C15
1-A16
2-C2
2-A2
2-A8,C8,A9,C9,A10 -C10,A11,C11,A12 -C12,A13,C13,C22
2-A18,C18,A19
2-C19,A20,C20
2-A15,C15,A16
1-A22,C22 A23,C23 A24,C24
1-C21
1-A21
1-C6
1-A5
AND IC2024 TC7S08F
TO H-CPU
RESET
2-A28
19.66MHz
WDT IC2021 MM1170
SUB CPU IC2023 HD6473257SX1628 MODE 2
DMP BUS
2-C26
2-A26
2-C27
2-A27
BUFFER IC2022 MC74HC244AF
DP RAM IC2025 CY7C136 -55JC
BUSY
ADDRESS DEC IC2016 CXD108 -143Q
OSD BUSY
LAMP COVER
FILTER COVER
LAMP TEMP
C TEMP
IC2001
LAMP PROT
G TEMP
2-C16
2-A30
2-A29
2-C29
1-A9
1-C5
1-A6
AND IC2047 TC74 VHC08F
FAN
PWR MONI
OR D2014 D2027
FAN1
FAN2
FAN3
2-A31
2-C31
1-C4
OR Q2001 -05 D2034 -36
5.2V
6.2V
16.3V
13.5V
AUDIO+B
1-30
1-29
1-28
1-27
1-2
D.FF IC2057 TC7W74F
MONOSTABLE MULTIVIBRATOR IC2058 TC74HC123AF
5V-2
5V-4
Q2037

SECTION 4
SET-UP ADJUSTMENT

4-1. POLARIZATION BOARD ADJUSTMENT

Perform the adjustment when the polarization board and LCD panel are changed.

1. Input the all-black signal.
   Run the fan.
   Make the area around the screen adequately dark.
2. Make adjustment so that the Vcom voltage meets the specifications below.

Vcom voltage	Rch	TP5608 (C board)
	Gch	TP5721 (C board)
	Bch	TP5808 (C board)

<Specification> 6.3 ± 0.1 VDC

Method of adjustment:

*1. Make adjustment by means of the following of C-GAMMA/ RGB AMP/P DRV of DEVICE ADJUST in the FACTORY mode:

(31 C-P, DRV/R Vcom
32 C-P, DRV/G Vcom
33 C-P, DRV/B Vcom)

How to enter the FACTORY mode
Press the following keys in order in the SERVICE mode:
ENTER + ENTER + ← + ENTER.
"Do you wish to enter into the FACTORY MODE?" is displayed, so move the cursor to YES, and then press the ENTER key.

3. Loosen the polarization board fastening screw.
4. For R, G, and B, adjust the polarization board position to the point where the brightness is the lowest.
5. Tighten the polarization board fastening screw.
   Tightening torque
   0.8±0.1 Nm (8.0±1.0 kg.cm)

4-2. VCOM ADJUSTMENT

Perform the adjustment when the LCD panel is changed.

1. Input the green single-color S VGA 1H inverted signal to the INPUT-A input.
2. Press the INPUT-A key and switch the input.
3. Press the MENU key and display the menu.
4. Move the cursor to CONTRAST in PICTURE CTRL, then press the → key or the ENTER key to enter CONTRAST adjustment mode.
5. Using the ↑, ↓, →, and ← keys, set the CONTRAST to 65.
6. Press the ENTER key to exit from the CONTRAST adjustment mode.
7. In the same manner, set BRIGHT to 50.
8. Press the MENU key to put out the menu.
9. While monitoring the projection screen, turn *1 Reference (G Vcom) and adjust for the minimum flicker.
10. Set CONTRAST to 50.
11. Switch the INPUT-A input signal to the red single-color S VGA 1H inverted signal.
12. While monitoring the projection screen, turn *1 Reference (R Vcom) and adjust for the minimum flicker.
13. Switch the INPUT-A input signal to the blue single-color S VGA 1H inverted signal.
14. While monitoring the projection screen, turn *1 Reference (B Vcom) and adjust for the minimum flicker.

4-3. WHITE BALANCE ADJUSTMENT

1. Signal level adjustment

1. Input the 100IRE flat field S VGA signal to INPUT-A input.
2. Press the MAIN POWER switch to switch on the power, and then press the POWER ON key. Switch the input to INPUT-A.
3. Enter the SERVICE mode.
   How to enter the SERVICE mode
   With the menu off, press the following keys in order:
   ENTER + ENTER + ↑ + ↓ + ENTER
   "Do you wish to enter into the SERVICE MODE?" is displayed, so move the cursor to YES, and then press the ENTER key.
4. Press the MENU key to display the menu.
5. Move the cursor to CONTRAST in PICTURE CTRL, and then press the → key or ENTER key to enter CONTRAST adjustment mode.
6. Using the ↑ , ↓ , → and ← keys, set CONTRAST to 80.
7. Press the ENTER key to exit from the CONTRAST mode.
8. In the same manner, set BRIGHT to 50.
9. Press the ENTER key to exit from BRIGHT adjustment mode.
10. Move the cursor to HBM on the second page of "W/B ADJUST," and then press the → key or ENTER key to enter the W/B adjustment mode.
11. Display R Gain brightly (select it) with the ↑ , ↓ keys.
    Observe the waveform at TP5107 on the C board with the oscilloscope and use the → , and ← keys for adjustment to meet the specifications in Figure 4-1.
12. Display R BIAS brightly (select it) with the ↑ , ↓ keys.
    Use the → and ← keys for adjustment to meet the specifications of 1.8 Vdc in Figure 4-1.
13. Display B Gain brightly (select it) with the ↑ , ↓ keys.
    Observe the waveform at TP5108 on the C board with the oscilloscope and use the → and ← keys for adjustment to meet the specifications of 1.4Vp-p in Figure 4-1.
14. Display B BIAS brightly (select it) with the ↑ , ↓ keys.
    Observe the waveform at TP5108 on the C board with the oscilloscope and use the → and ← keys for adjustment to meet the specifications of 1.8 Vdc in Figure 4-1.

15. Display B GAIN brightly (select it) with the ↑ and ↓ keys.
    Observe the waveform at TP5109 on the C board with the oscilloscope and use the → and ← keys for adjustment to meet the specifications of 1.4Vp-p in Figure 4-1.
16. Display B BIAS brightly (select it) with the ↑ and ↓ keys.
    Observe the waveform at TP5107 on the C board with the oscilloscope and use the → and ← keys for adjustment to meet the specifications of 1.8 Vdc in Figure 4-1.

11.-16. Signal level specification

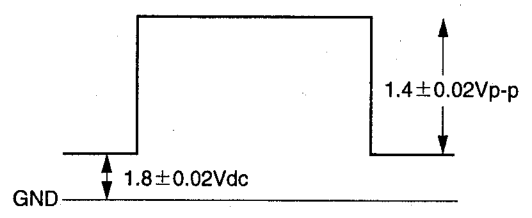


Fig.4-1

17. Press the MENU key to put out the menu.
18. Exit from the SERVICE mode.
    How to exit from the SERVICE mode
    With the menu off, press the following keys in order:
    ENTER + ENTER + ↑ , ↓ + ENTER
    "Do you wish to return to the USER CONTROL MODE?" is displayed, so move the cursor to YES, and then press the ENTER key.
19. Observe the screen and check that there is no lamp flickering.

2. SID, signal center adjustment

1. Enter the SERVICE mode and then enter the FACTORY mode.

   How to enter the FACTORYmode
   Press ENTER + ENTER + ← + ENTER in this order, and "Do you wish to ENTER into the FACTORY MODE?" is displayed, so move the corsor to YES, and then press the ENTER key.

2. Input the S VGS 0IRE signal, and adjust P-DRV SIG CENT of DEVICE CTRL so that the DC voltage of TP5706 will be 7.0 ± 0.05.
3. Adjust P-DRV SID of DEVICE CTRL so that the waveform of TP5701 will meet the specifications in Figure 4-2.

Specifications for SID waveform

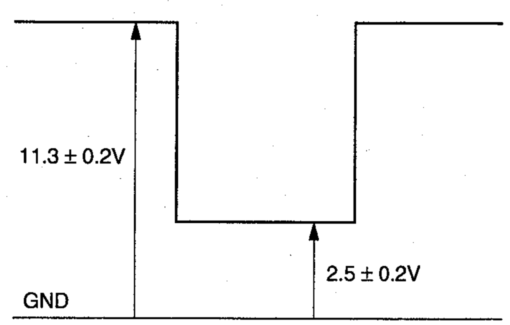


Fig.4-2

3. White Balance Adjustment Preparations

1. Input the 100IRE flat field VGA signal to the INPUT-A input.
2. Press the ZOOM + key and zoom out all the way to the WIDE end (maximum projection size).
3. Press the SHIFT + key and set the PICTURE SHIFT all the way to the top end (moving the projection position all the way to the top).
4. Set CONTRAST to 100 and BRIGHT to 50, and measure the maximum illuminance Yrmax, Ygmax, and Ybmax of respective signal colors by using a lighttight plate.

4. HBM Adjustment (γ GRAPHICS Mode)

1. Set CONTRAST to 80 and BRIGHT to 50, and then enter the GRAPHICS mode by JIGMODE/ γ SWITCH.
   CONTRAST 80 corresponds to DAC DATA CCh.
   BRIGHT 50 corresponds to DAC DATA C6h.
2. Input VGA 80IRE flat field (ROM No.27).
   Using a lighttight board, adjust JIGMODE/CXA2111-R Bias, G Bias, and B Bias so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.633 ± 6%
   Ygmax × 0.633 ± 6%
   Ybmax × 0.633 ± 6%
3. Input VGA 30IRE flat field (ROM No.10).
   Using a lighttight board, adjust JIGMODE/CXA2111-R Gain, G Gain, and B Gain so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.061 ± 6%
   Ygmax × 0.061 ± 6%
   Ybmax × 0.061 ± 6%
4. Set the tracking so that both specifications 2 and 3 will be satisfied.

5. Input VGA 20IRE flat field (ROM No.7).
   Using a lighttight board, adjust JIGMODE/CXA2111-R B1G, G B1G, and B B1G so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.025 ± 6%
   Ygmax × 0.025 ± 6%
   Ybmax × 0.025 ± 6%

5. Color Temperature LOW Adjustment

1. Input the 80IRE flat field VGA signal to the INPUT-A input and set COLOR TEMP LOW.
   Adjust each value of GAIN R. G. B, Bias R. G. B so that they will be the same as HBM data.
2. Adjust the W/B ADJ Gain G data so that the color temperature y value at that time (white) satisfies the specifications below.
   80IRE white color temperature
   <Specification> y = 0.360 ± 0.003
3. After the adjustment in 2 is complete, adjust as follows according to the color temperature x value.
   • x ≧ 0.305
   Adjust the W/B ADJ Gain R data.
   • x < 0.305
   Adjust the W/B ADJ Gain B data.
4. Repeat the adjustment in 2 and 3, and set the tracking to satisfy the specifications below.
   80IRE white color temperature
   <Specification> (x, y) = (0.305 ± 0.003, 0.360 ± 0.003)
5. Switch the INPUT-A input signal to the 20IRE flat field VGR signal.
6. Adjust the W/B ADJ Bias R and Bias B data so that the color temperature at that time (white) satisfies the specifications below.
   20IRE white color temperature
   <Specification> (x, y) = (0.305 ± 0.003, 0.360 ± 0.003)
7. Switch the INPUT-A input signal to the 80IRE flat field VGR signal.
8. Adjust the W/B ADJ Gain R and Gain B data so that the color temperature at that time (white) satisfies the specifications below.
   80IRE white color temperature
   <Specification> (x, y) = (0.305 ± 0.003, 0.360 ± 0.003)
9. Repeat operations 5-8 and set the tracking to fulfill the specifications of 6 and 8.

6. Color Temperature HIGH Adjustment

1. Input the 80IRE flat field VGA signal to the INPUT-A input and set COLOR TEMP HIGH.
   Adjust each value of GAIN R. G. B, Bias R. G. B so that they will be the same as HBM data.
2. Adjust the W/B ADJ Gain G data so that the color temperature y value at that time (white) satisfies the specifications below.
   80IRE white color temperature
   <Specification> y = 0.330 ± 0.003
3. After the adjustment in 2 is complete, adjust as follows according to the color temperature x value.
   • x ≧ 0.285
   Adjust the W/B ADJ Gain R data.
   •x < 0.285
   Adjust the W/B ADJ Gain B data.
4. Repeat the adjustment in 2 and 3, and set the tracking to satisfy the specifications below.
   80IRE white color temperature
   <Specification> (x, y) = (0.285 ± 0.003, 0.330 ± 0.003)
5. Switch the INPUT-A input signal to the 20IRE flat field VGR signal.
6. Adjust the W/B ADJ Bias R and Bias B data so that the color temperature at that time (white) satisfies the specifications below.
   20IRE white color temperature
   <Specification> (x, y) = (0.285 ± 0.003, 0.330 ± 0.003)
7. Switch the INPUT-A input signal to the 80IRE flat field VGR signal.
8. Adjust the W/B ADJ Gain R and Gain B data so that the color temperature at that time (white) satisfies the specifications below.
   80IRE white color temperature
   <Specification> (x, y) = (0.285 ± 0.003, 0.330 ± 0.003)
9. Repeat operations 5-8 and set the tracking to fulfill the specifications of 6 and 8.

7. HMB Adjustment (γ TEXT Mode)

1. Change the color temperature to HMB, and enter the TEXT mode by JIGMODE/ γ SWITCH.
2. Input VGA 80IRE flat field (ROM No.27).
   Using a lighttight board, adjust JIGMODE/CXA2111-R Bias, G Bias, and B Bias so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.908 ± 6%
   Ygmax × 0.908 ± 6%
   Ybmax × 0.908 ± 6%
3. Input VGA 30IRE flat field (ROM No.10).
   Using a lighttight board, adjust JIGMODE/CXA2111-R Gain, G Gain, and B Gain so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.052 ± 6%
   Ygmax × 0.052 ± 6%
   Ybmax × 0.052 ± 6%
4. Set the tracking so that both specifications 2 and 3 will be satisfied.
5. Input VGA 20IRE flat field (ROM No.7).
   Using a lighttight board, adjust JIGMODE/CXA2111-R B1G, G B1G, and B B1G so that the brightness of respective single colors will meet the following specifications:
   <Specifications>
   Yrmax × 0.019 ± 6%
   Ygmax × 0.019 ± 6%
   Ybmax × 0.019 ± 6%
6. Exit from the FACTORY mode.

   How to exit from the FACTIRY mode.
   Press ENTER + ENTER + ← + ENTER in this order, and "Do you wish to return to the USER CONTROL MODE?" is displayed, so move the corsor to YES, and then press the ENTER key.

SECTION 5
ELECTRICAL ADJUSTMENT

5-1. BC BOARD ADJUSTMENT

1. RGB AFC Section Adjustment

1) Synchronization signal input

Input the horizontal synchronization signal to CN4001 (A23).

< Specification >

fH = 31.5 kHz, negative polarity, 4.5 ± 0.5 Vp-p

(VGA specification signal)

2) S4702 setting

Switch S4702 to the RGB HD OFF side.

3) RV4701 adjustment

Adjust RV4701 so that the DC voltage at TP4702 meets the specification.

< Specification >

4.35±0.03 VDC

Connect the digital voltmeter only for the RV4701 adjustment, and disconnect it after adjustment.

4) RV4702 adjustment

Adjust RV4702 so that the signal at TP4703 is synchronized with the signal at TP4701 (input).

5) S4702 setting

Switch S4702 to the side opposite to the RGB HD OFF side.

Note: Max. 3W is secured by antiphase-driving the (+) and (–) of the speaker as shown in Fig.5-1, so never ground both (+) and (–) when observing the speaker driving waveform.

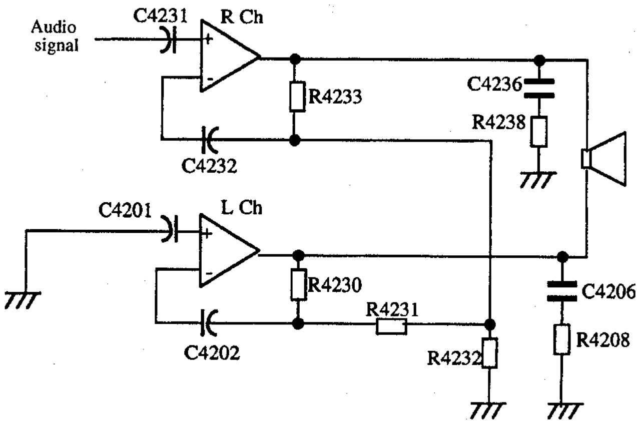

Audio signal
C4231
R Ch
+
-
R4233
C4236
R4238
C4232
C4201
L Ch
+
-
R4230
R4231
C4206
C4202
R4232
R4208

Fig.5-1

5-2. BB BOARD ADJUSTMENT

1. Output Level Adjustment

Generate a 100% flat field of S VGA 60 with the signal generator and input 1.6 ± 0.01 Vp-p signals to R, G, and B. Adjust RV3600 (GAIN) so that the signal at TP3602 (G0) is 0.6 ± 0.01 Vp-p. After adjustment, check the signals at both TP3600 (B0) and TP3603 (R0) are 0.6 ± 0.02 Vp-p.

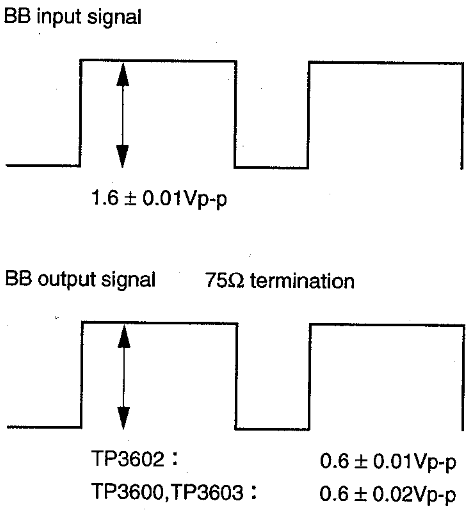

BB input signal
1.6 ± 0.01Vp-p
BB output signal
75Ω termination
TP3602 : 0.6 ± 0.01Vp-p
TP3600,TP3603 : 0.6 ± 0.02Vp-p

Fig.5-2

5-3. M BOARD ADJUSTMENT

1. Current Detection 0-Setting Adjustment

Apply no load (open) to CONTROL-S IN.

Adjust RV2001 so that TP2015 (0SET) will meet the specification.

<Specification> 30 ± 10 mV

SECTION 6
ERROR INDICATOR DISPLAY

6-1. PROCESSING WHEN 88 DISPLAYED BY ERROR INDICATOR

When 88 is displayed on the error indicator, this may mean a lamp defect or power defect. First, switch off the MAIN POWER, then open the lamp cover.
It is extremely rare, but the lamp may have been destroyed. If the equipment is hanging from the ceiling, fragments of the lamp could fall, so if the equipment is hanging from the ceiling, make sure no one is standing directly below the lamp cover.
If the lamp looks normal, the problem may be the lamp power supply.
Check the power supply visually.

There are two cases in which 88 is displayed on the error indicator.

1: The lamp does not come on when the power is turned on.
In that case, turn OFF/ON the AC switch, and "88" disappears and you can switch the power on again without carrying out the operations below.

2: The lamp was on, but went off.
In order to avoid danger, you can not switch the power on again in this case. Check the problem and solve it, then carry out the operations below.

Enter the standby state, press LIGHT on the control panel, and press 8 , 8 (the slide switch of the remote commander to be at INDEX), and ENTER on the remote commander at intervals of less than two seconds. The "88" disappears and the power can be turned on again.

If the lamp must be replaced to cope with the problem, the lamp timer must be reset. After resetting the timer, press LIGHT , ← , → , and ENTER on the control panel at intervals of less than two seconds.
This resets the lamp timer.
This operation is not necessary unless you replace the lamp.

Note) When LIGHT , 8 , 8, and ENTER or LIGHT , ← , →, and ENTER keys are pressed, the light must be ON. The key operation is invalid when the light is OFF.LIGHT ON.
Invalid data when the LIGHT OFF.

The above-mentioned LIGHT means LIGHT on the control panel. Never press LIGHT on the remote commander. The above operation by means of LIGHT on the remote commander annul the functions of the remote commander.

6-2. 7-SEGMENT LED ERROR DISPLAY

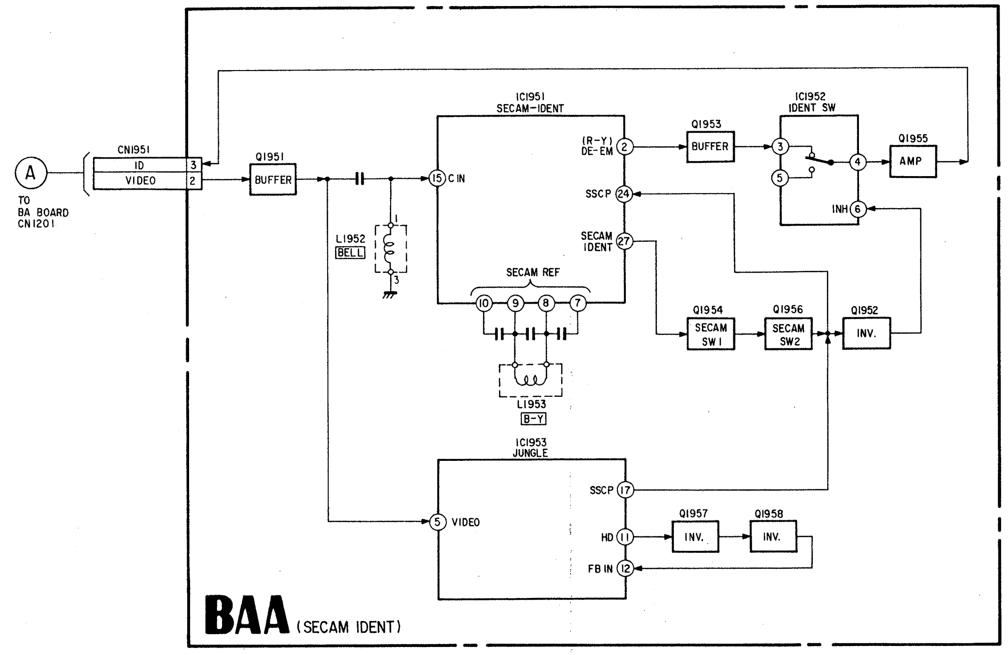
Display		Signal	Cause	Remarks
8x				
	88	LAMP PROT	Lamp or lamp power abnormality	
1x				
	11	LAMP COVER	Lamp cover out of place	
	12	FILTER COVER	Filter cover out of place	
	13	SET PWR MONI	Main power abnormality D5V, A6.2V, 13.5V, 16.3V, AUDIO13.5V	
	14	FAN PROT	Fan abnormality	
	15	LAMP TEMP	Lamp temperature abnormality	
	16	C TEMP	C board temperature abnormality	
	17	G TEMP	Power board temperature abnormality	

Note 1: The order of priority for display is from the top of the table above to the bottom.
The display section can only display one item at a time, so if multiple errors occur, the code with the highest priority is displayed.

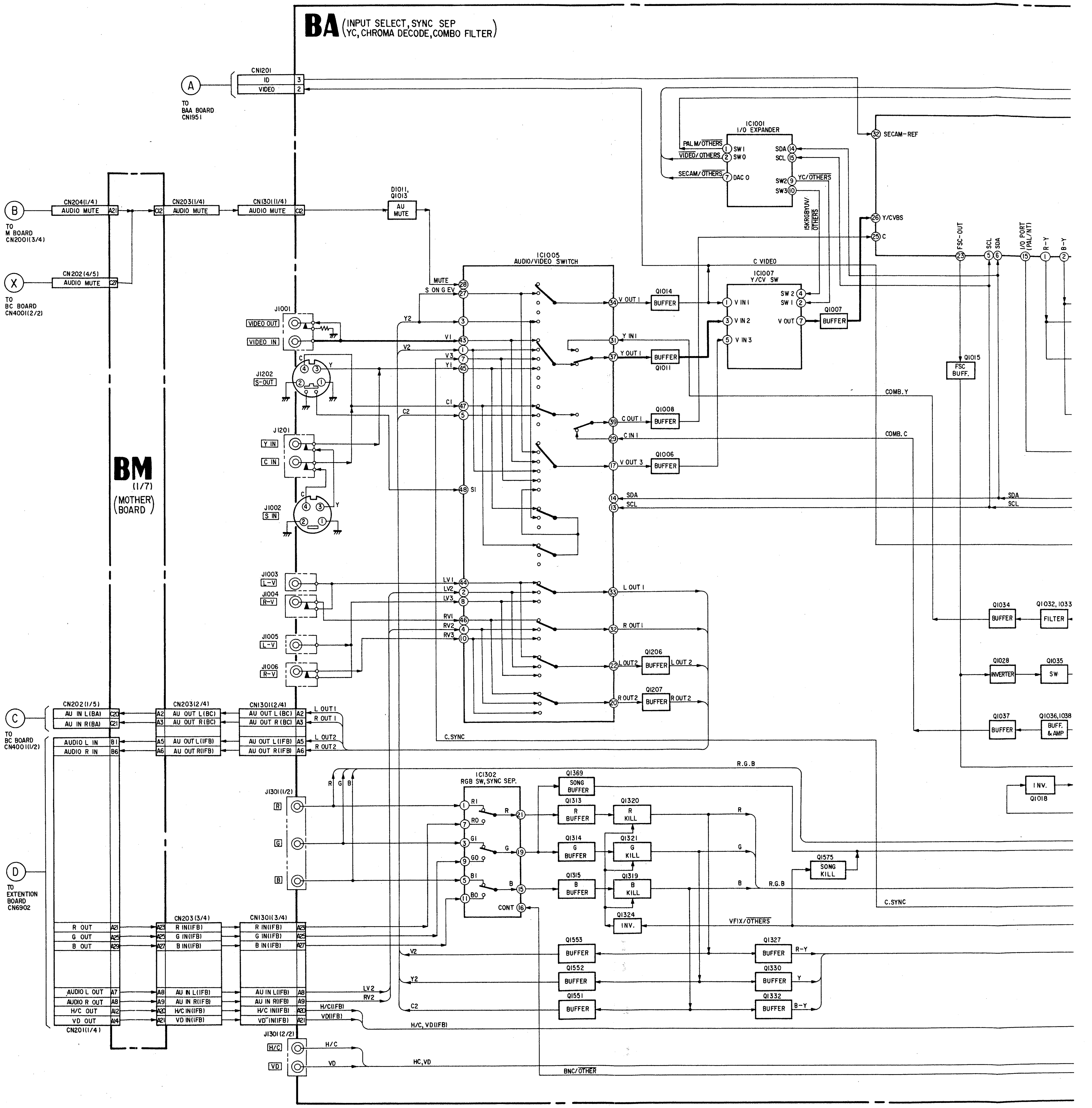
Note 2: All the error codes are displayed flashing.

SECTION 7
DIAGRAMS

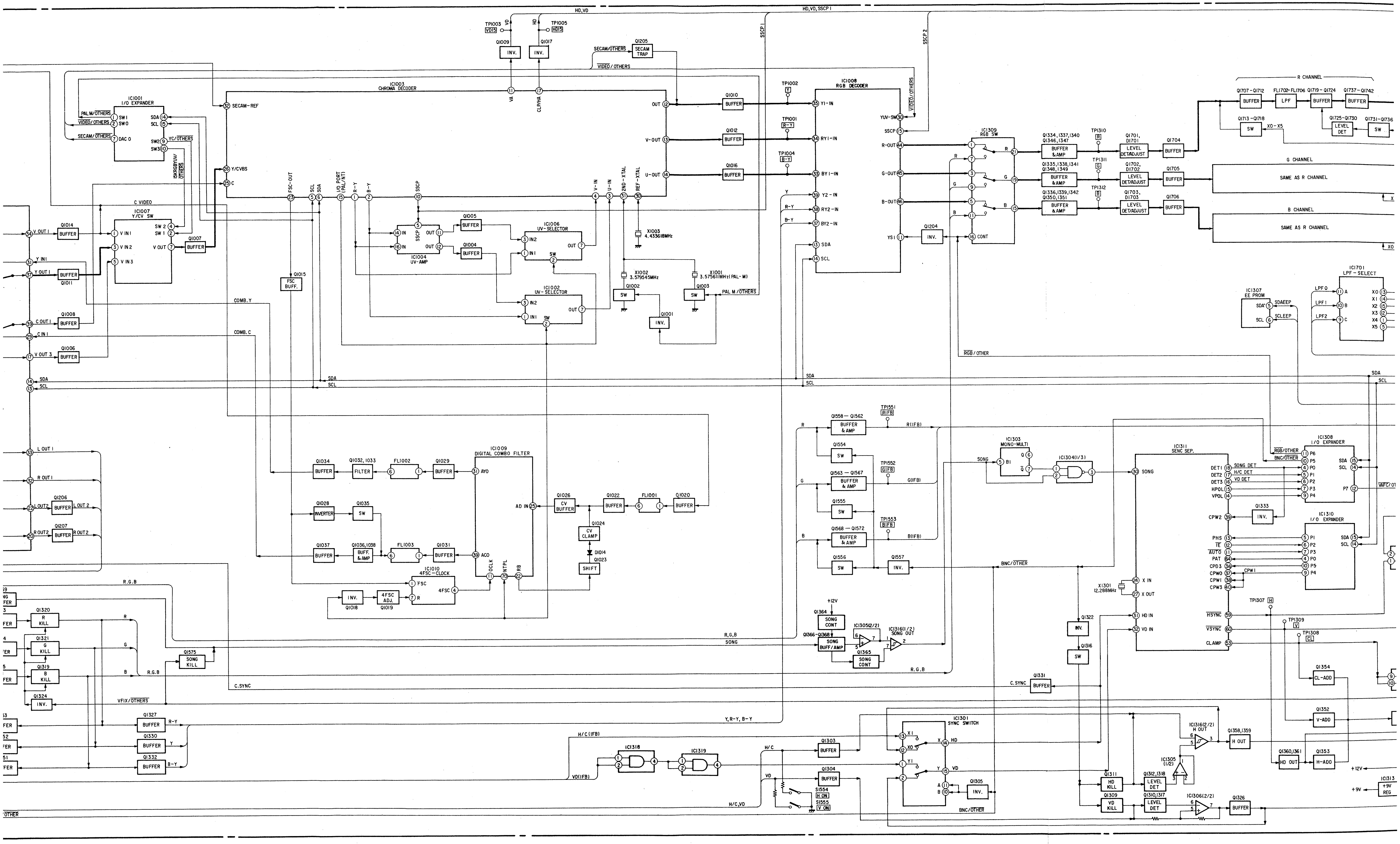
7-1. BLOCK DIAGRAMS

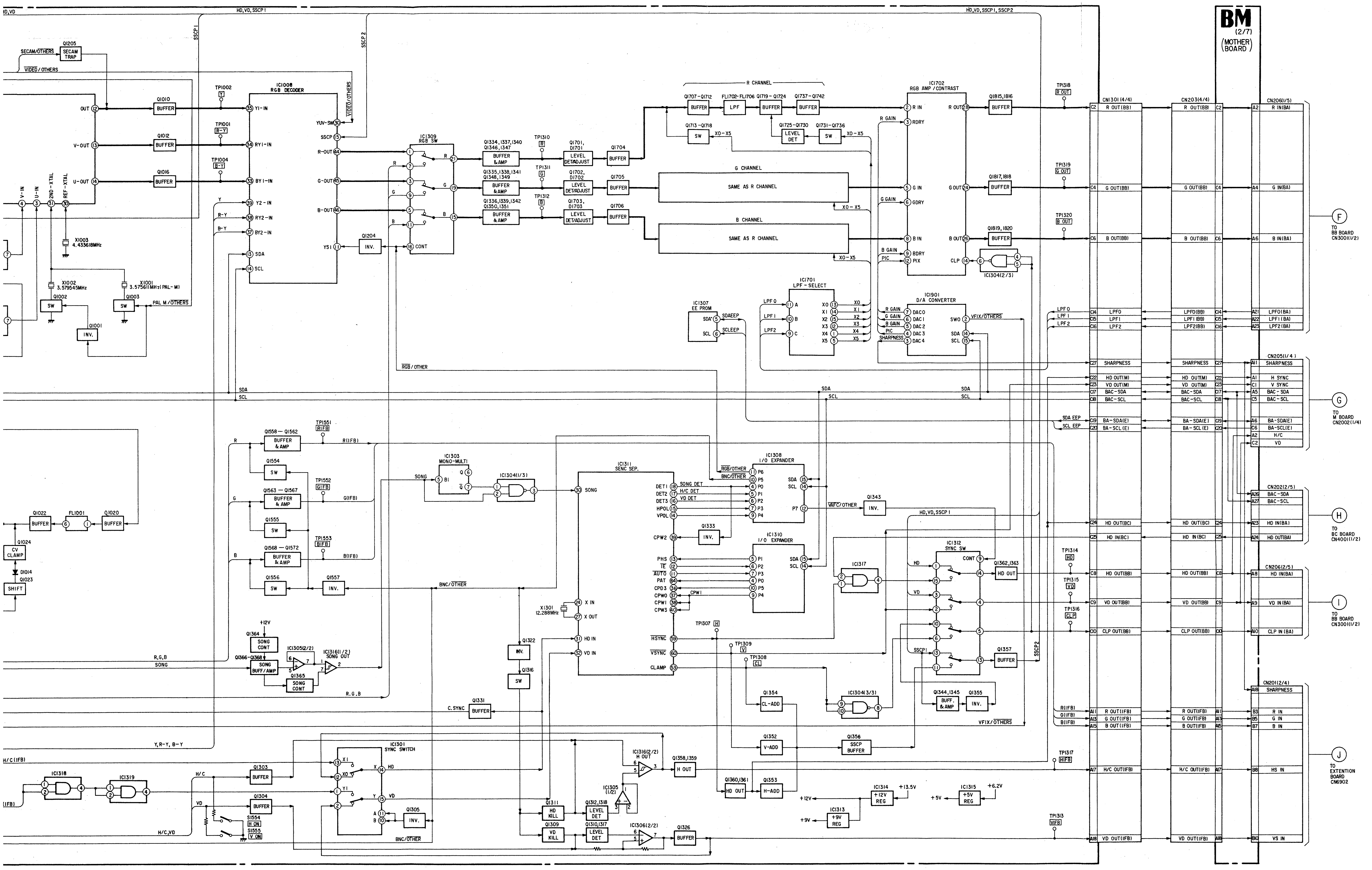


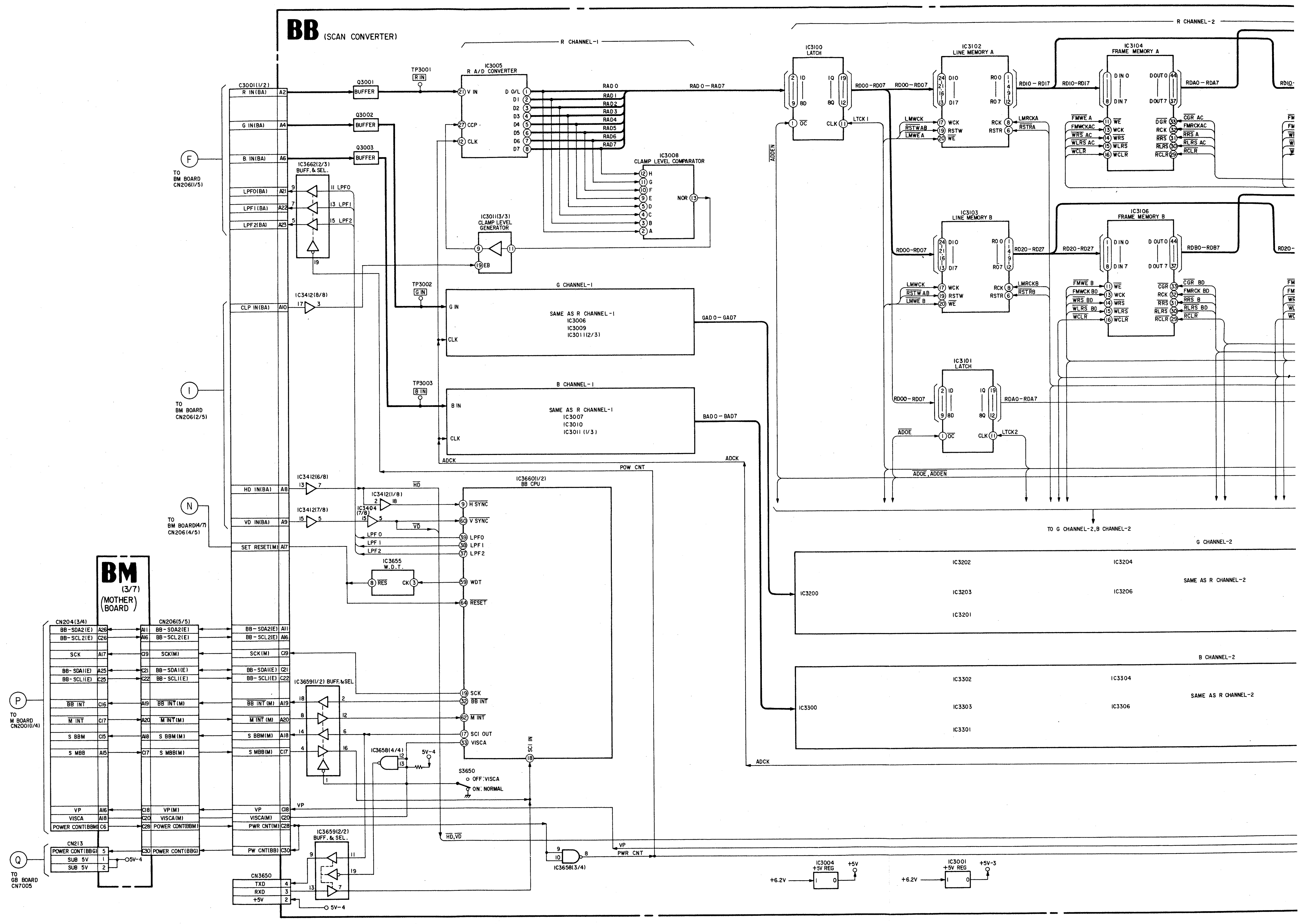
A
TO BA BOARD CN1201
CN1951
ID
VIDEO
Q1951
BUFFER
L1952
BELL
IC1951
SECAM-IDENT
C IN
(R-Y) DE-EM
SSCP
SECAM IDENT
SECAM REF
L1953
B-Y
Q1953
BUFFER
IC1952
IDENT SW
INH
Q1955
AMP
Q1954
SECAM SW1
Q1956
SECAM SW2
Q1952
INV.
IC1953
JUNGLE
VIDEO
SSCP
HD
FB IN
Q1957
INV.
Q1958
INV.
BAA (SECAM IDENT)

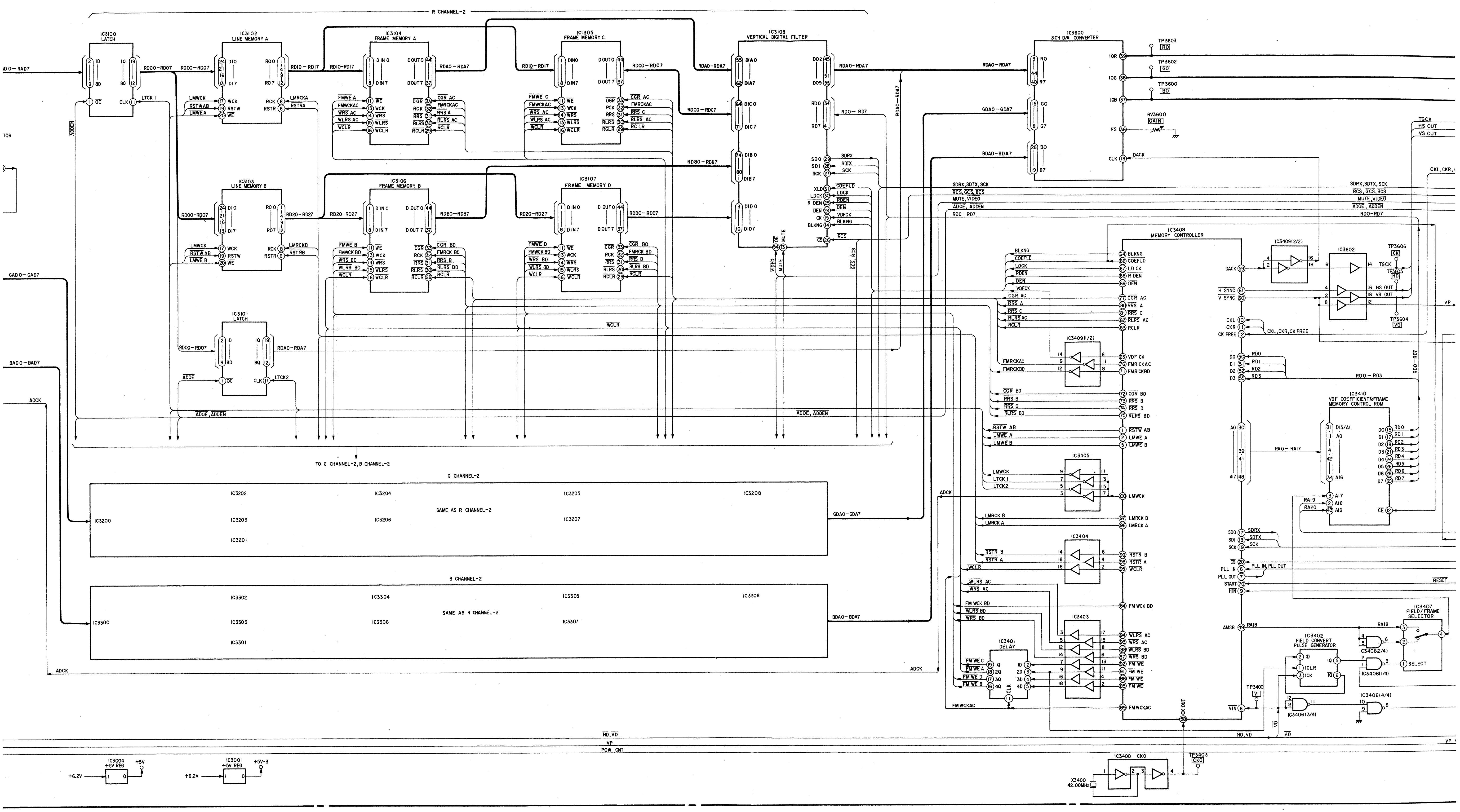


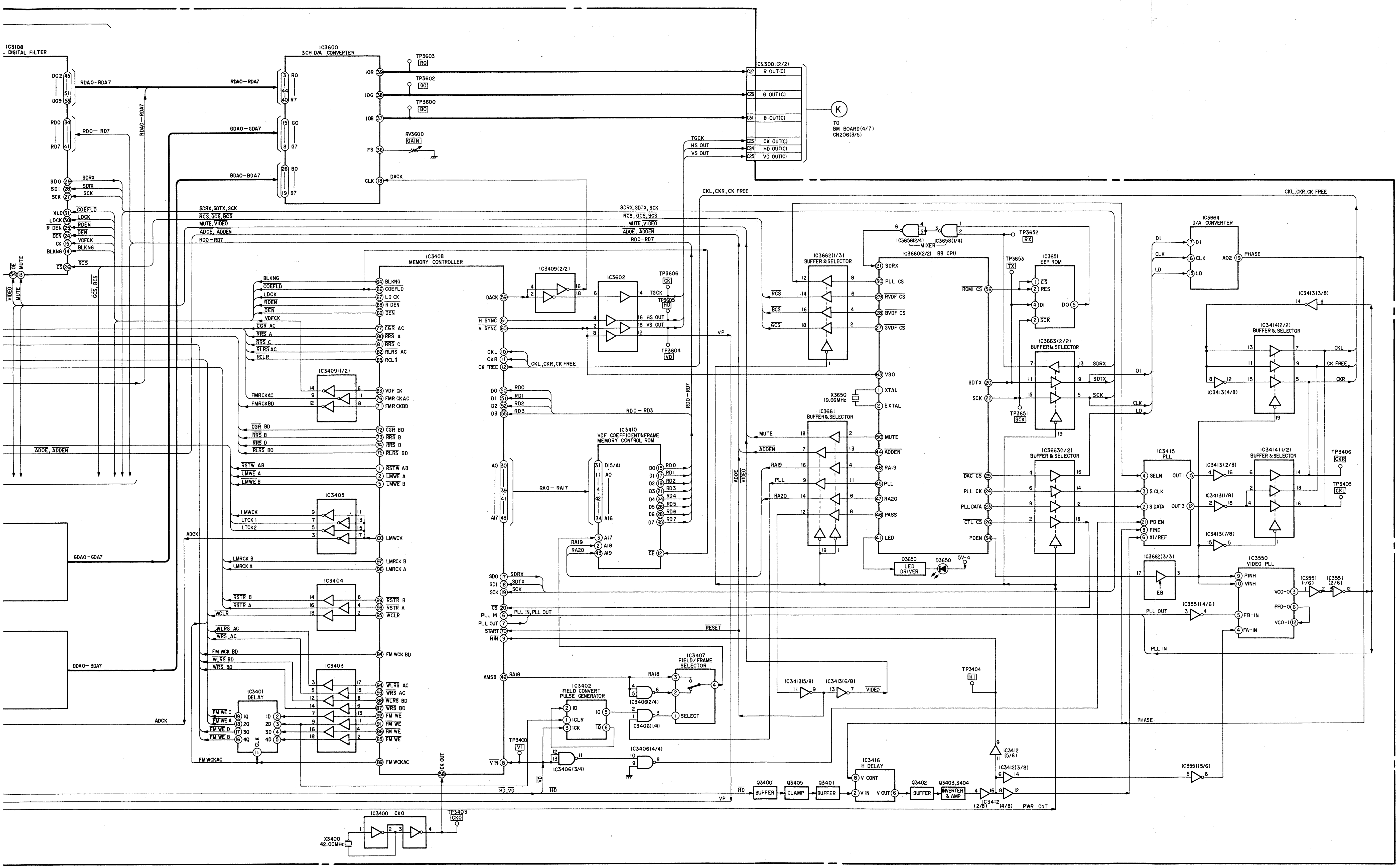
BA (INPUT SELECT, SYNC SEP YC, CHROMA DECODE, COMBO FILTER)
A
TO BAA BOARD CN1951
CN1201
ID
VIDEO
B
TO M BOARD CN2001(3/4)
CN204(1/4)
AUDIO MUTE
X
TO BC BOARD CN4001(2/2)
CN202(4/5)
AUDIO MUTE
CN203(1/4)
AUDIO MUTE
CN1301(1/4)
AUDIO MUTE
D1011, D1013
AU MUTE
BM (1/7) (MOTHER BOARD)
IC1001
I/O EXPANDER
PAL M/OTHERS
VIDEO/OTHERS
SECAM/OTHERS
SW1
SW0
DAC 0
SDA
SCL
SW2
SW3
YC/OTHERS
15KRGBYUV/OTHERS
SECAM-REF
Y/CVBS
C
C VIDEO
IC1007
Y/CV SW
V IN1
V IN2
V IN3
SW2
SW1
V OUT
Q1007
BUFFER
IC1005
AUDIO/VIDEO SWITCH
MUTE
S ON G EV
J1001
VIDEO OUT
VIDEO IN
J1202
S-OUT
J1201
Y IN
C IN
J1002
S IN
Y2
V2
V1
V3
Y1
C1
C2
S1
V OUT1
Q1014
BUFFER
Y IN1
Y OUT1
BUFFER
Q1011
C OUT1
Q1008
BUFFER
C IN1
V OUT3
Q1006
BUFFER
SDA
SCL
FSC-OUT
Q1015
FSC BUFF.
I/O PORT (PAL/NT)
R-Y
B-Y
COMB.Y
COMB.C
J1003
L-V
J1004
R-V
J1005
L-V
J1006
R-V
LV1
LV2
LV3
RV1
RV2
RV3
L OUT1
R OUT1
L OUT2
Q1206
BUFFER
R OUT2
Q1207
BUFFER
C.SYNC
Q1034
BUFFER
Q1032, 1033
FILTER
Q1028
INVERTER
Q1035
SW
Q1037
BUFFER
Q1036, 1038
BUFF. & AMP
INV.
Q1018
C
TO BC BOARD CN4001(1/2)
CN202(1/5)
AU IN L(BA)
AU IN R(BA)
AUDIO L IN
AUDIO R IN
CN203(2/4)
AU OUT L(BC)
AU OUT R(BC)
AU OUT L(IFB)
AU OUT R(IFB)
CN1301(2/4)
AU OUT L(BC)
AU OUT R(BC)
AU OUT L(IFB)
AU OUT R(IFB)
L OUT1
R OUT1
L OUT2
R OUT2
R.G.B
J1301(1/2)
R
G
B
IC1302
RGB SW, SYNC SEP.
RI
RO
GI
GO
BI
BO
CONT
Q1369
SONG BUFFER
Q1313
R BUFFER
Q1320
R KILL
Q1314
G BUFFER
Q1321
G KILL
Q1315
B BUFFER
Q1319
B KILL
Q1324
INV.
Q1575
SONG KILL
VFIX/OTHERS
D
TO EXTENTION BOARD CN6902
R OUT
G OUT
B OUT
AUDIO L OUT
AUDIO R OUT
H/C OUT
VD OUT
CN201(1/4)
CN203(3/4)
R IN(IFB)
G IN(IFB)
B IN(IFB)
AU IN L(IFB)
AU IN R(IFB)
H/C IN(IFB)
VD IN(IFB)
CN1301(3/4)
R IN(IFB)
G IN(IFB)
B IN(IFB)
AU IN L(IFB)
AU IN R(IFB)
H/C IN(IFB)
VD IN(IFB)
LV2
RV2
H/C(IFB)
VD(IFB)
Q1553
BUFFER
Q1552
BUFFER
Q1551
BUFFER
Q1327
BUFFER
Q1330
BUFFER
Q1332
BUFFER
R-Y
Y
B-Y
H/C, VD(IFB)
J1301(2/2)
H/C
VD
HC, VD
BNC/OTHER

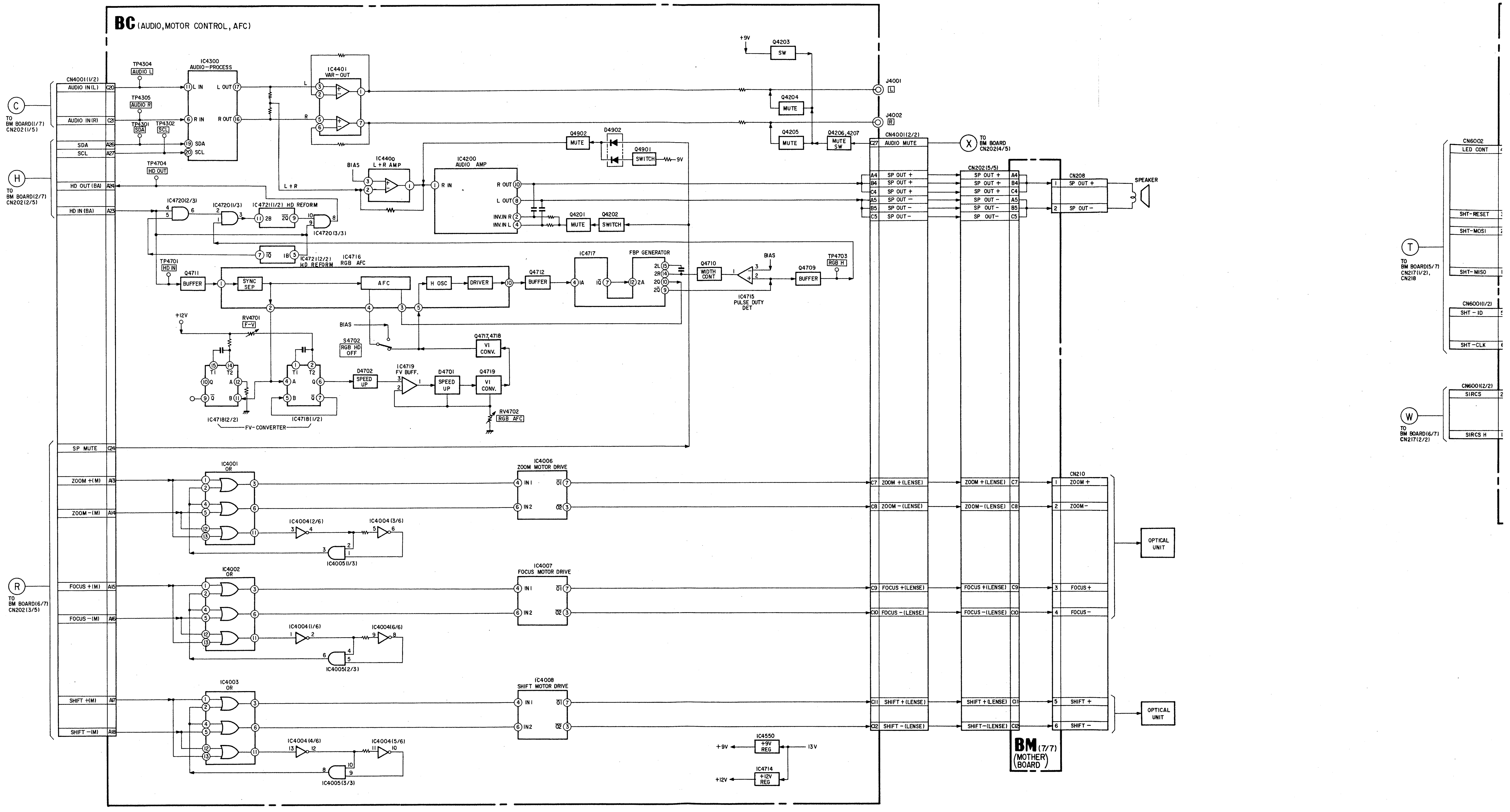

HD,VD
HD,VD,SSCP I
TP1003 VD15
TP1005 HD15
Q1009 INV.
Q1017 INV.
Q1205 SECAM TRAP
SECAM/OTHERS
VIDEO/OTHERS
SSCP I
SSCP 2
IC1003 CHROMA DECODER
SECAM-REF
Y/CVBS
C
VA
CLP/HA
OUT
V-OUT
U-OUT
FSC-OUT
SCL
SDA
I/O PORT (PAL/NT)
R-Y
B-Y
SSCP
V-IN
U-IN
2ND-XTAL
REF-XTAL
X1003 4.433618MHz
X1002 3.579545MHz
X1001 3.575611MHz (PAL-M)
Q1002 SW
Q1003 SW
Q1001 INV.
PAL M/OTHERS
Q1010 BUFFER
Q1012 BUFFER
Q1016 BUFFER
TP1002 Y
TP1001 R-Y
TP1004 B-Y
IC1008 RGB DECODER
Y1-IN
RY1-IN
BY1-IN
Y2-IN
RY2-IN
BY2-IN
SDA
SCL
YUV-SW
SSCP
R-OUT
G-OUT
B-OUT
YS1
Q1204 INV.
IC1001 I/O EXPANDER
PALM/OTHERS
SW1
SW0
DAC 0
SW2
SW3
YC/OTHERS
15KRGB/VIDEO/OTHERS
IC1007 Y/CV SW
V IN1
V IN2
V IN3
V OUT
Q1007 BUFFER
C VIDEO
Q1014 BUFFER
V OUT 1
Y IN1
Y OUT 1
Q1011 BUFFER
Q1008 BUFFER
C OUT 1
C IN1
Q1006 BUFFER
V OUT 3
SDA
SCL
Q1015 FSC BUFF.
IC1004 UV-AMP
Q1005 BUFFER
Q1004 BUFFER
IC1006 UV-SELECTOR
IC1002 UV-SELECTOR
IN2
IN1
SW
OUT
COMB.Y
COMB.C
L OUT 1
R OUT 1
Q1206 BUFFER
LOUT2
Q1207 BUFFER
ROUT2
IC1009 DIGITAL COMBO FILTER
AYO
ACO
AD IN
OCLK
INTPL
RB
Q1034 BUFFER
Q1032,1033 FILTER
FL1002
Q1029 BUFFER
Q1028 INVERTER
Q1035 SW
Q1037 BUFFER
Q1036,1038 BUFF. &AMP
FL1003
Q1031 BUFFER
Q1026 CV BUFFER
Q1022 BUFFER
FL1001
Q1020 BUFFER
Q1024 CV CLAMP
D1014 Q1023 SHIFT
IC1010 4FSC-CLOCK
FSC
4FSC
Q1018 INV.
Q1019 4FSC ADJ.
R.G.B
Q1320 R KILL
Q1321 G KILL
Q1319 B KILL
Q1324 INV.
Q1575 SONG KILL
VFIX/OTHERS
C.SYNC
Q1327 BUFFER
Q1330 BUFFER
Q1332 BUFFER
R-Y
Y
B-Y
Y,R-Y, B-Y
H/C(IFB)
VD(IFB)
IC1318
IC1319
H/C
VD
H/C,VD
S1554 H ON
S1555 V ON
OTHER
Q1303 BUFFER
Q1304 BUFFER
IC1301 SYNC SWITCH
HD
VD
Q1305 INV.
BNC/OTHER
TP1551 R(FB)
Q1558 — Q1562 BUFFER & AMP
R(FB)
Q1554 SW
TP1552 G(FB)
Q1563 — Q1567 BUFFER & AMP
G(FB)
Q1555 SW
TP1553 B(FB)
Q1568 — Q1572 BUFFER & AMP
B(FB)
Q1556 SW
Q1557 INV.
+12V
Q1364 SONG CONT
Q1366-Q1368 SONG BUFF/AMP
Q1365 SONG CONT
IC1305(2/2)
IC1316(1/2) SONG OUT
R,G,B
SONG
IC1303 MONO-MULTI
IC1304(1/3)
IC1309 RGB SW
CONT
RGB/OTHER
Q1334,1337,1340 Q1346,1347 BUFFER &AMP
Q1335,1338,1341 Q1348,1349 BUFFER &AMP
Q1336,1339,1342 Q1350,1351 BUFFER &AMP
TP1310 R
TP1311 G
TP1312 B
Q1701, D1701 LEVEL DET/ADJUST
Q1702, D1702 LEVEL DET/ADJUST
Q1703, D1703 LEVEL DET/ADJUST
Q1704 BUFFER
Q1705 BUFFER
Q1706 BUFFER
R CHANNEL
Q1707–Q1712 BUFFER
FL1702–FL1706 LPF
Q1719 – Q1724 BUFFER
Q1737 – Q1742 BUFFER
Q1713 – Q1718 SW
X0 – X5
Q1725 – Q1730 LEVEL DET
Q1731 – Q1736 SW
G CHANNEL
SAME AS R CHANNEL
B CHANNEL
SAME AS R CHANNEL
X
X0
IC1701 LPF-SELECT
LPF0
LPF1
LPF2
A
B
C
X0 X1 X2 X3 X4 X5
IC1307 EE PROM
SDAEEP
SCLEEP
IC1311 SENC SEP.
SONG
DET1 DET2 DET3 HPOL VPOL
SONG DET
H/C DET
VD DET
CPW2
Q1333 INV.
IC1308 I/O EXPANDER
RGB/OTHER
BNC/OTHER
P6 P5 P0 P1 P2 P3 P4 P7
VAFC/OT
IC1310 I/O EXPANDER
PHS
IE
AUTO
PAT
CPD3
CPW0
CPW1
CPW3
X1301 12.288MHz
X IN
X OUT
HD IN
VD IN
HSYNC
VSYNC
CLAMP
TP1307 H
TP1309 V
TP1308 CL
Q1322 INV.
Q1316 SW
Q1331 BUFFER
C.SYNC
Q1354 CL-ADD
Q1352 V-ADD
Q1353 H-ADD
Q1360,1361 HD OUT
IC1316(2/2) H OUT
Q1358,1359 H OUT
IC1305 (1/2)
Q1311 HD KILL
Q1309 VD KILL
Q1312,1318 LEVEL DET
Q1310,1317 LEVEL DET
IC1306(2/2)
Q1326 BUFFER
+12V
+9V
IC1313 +9V REG

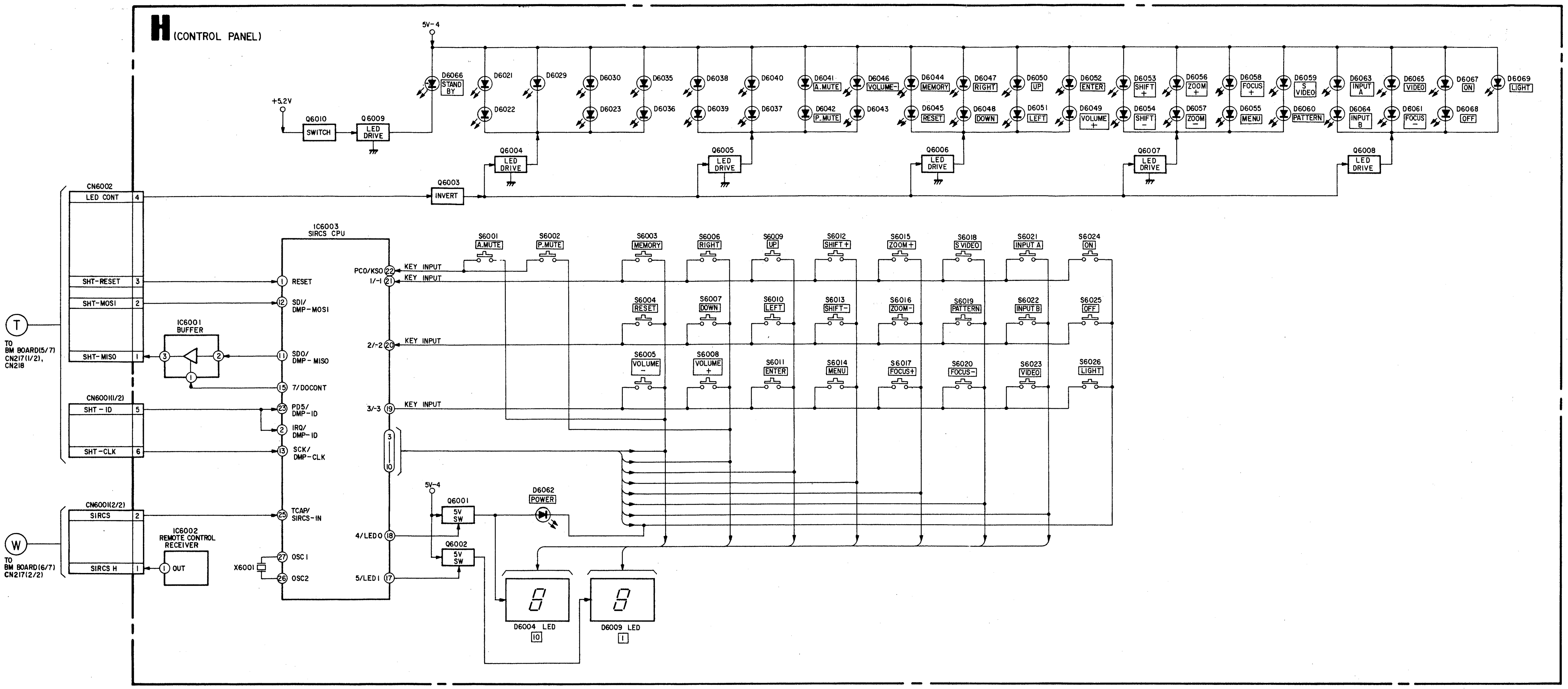

BM
(2/7)
(MOTHER BOARD)
HD,VD,SSCP1
HD,VD,SSCP1, SSCP2
SSCP1
SSCP2
Q1205 SECAM TRAP
SECAM/OTHERS
VIDEO/OTHERS
Q1010 BUFFER
Q1012 BUFFER
Q1016 BUFFER
OUT
V-OUT
U-OUT
V-IN
U-IN
2ND-XTAL
REF-XTAL
X1003 4.433618MHz
X1002 3.579545MHz
X1001 3.575611MHz(PAL-M)
Q1002 SW
Q1003 SW
Q1001 INV.
PAL M/OTHERS
TP1002 Y
TP1001 R-Y
TP1004 B-Y
IC1008 RGB DECODER
Y1-IN
RY1-IN
BY1-IN
Y2-IN
RY2-IN
BY2-IN
SDA
SCL
YUV-SW
SSCP
R-OUT
G-OUT
B-OUT
YS1
Q1204 INV.
VIDEO/OTHERS
IC1309 RGB SW
CONT
RGB/OTHER
Q1334,1337,1340 Q1346,1347 BUFFER &AMP
Q1335,1338,1341 Q1348,1349 BUFFER &AMP
Q1336,1339,1342 Q1350,1351 BUFFER &AMP
TP1310 R
TP1311 G
TP1312 B
Q1701, D1701 LEVEL DET/ADJUST
Q1702, D1702 LEVEL DET/ADJUST
Q1703, D1703 LEVEL DET/ADJUST
Q1704 BUFFER
Q1705 BUFFER
Q1706 BUFFER
R CHANNEL
Q1707-Q1712 BUFFER
FL1702-FL1706 LPF
Q1719-Q1724 BUFFER
Q1737-Q1742 BUFFER
Q1713-Q1718 SW
Q1725-Q1730 LEVEL DET
Q1731-Q1736 SW
X0-X5
G CHANNEL
SAME AS R CHANNEL
B CHANNEL
SAME AS R CHANNEL
IC1702 RGB AMP/CONTRAST
R IN
RDRY
G IN
GDRY
B IN
BDRY
PIX
R OUT
G OUT
B OUT
CLP
R GAIN
G GAIN
B GAIN
PIC
Q1815,1816 BUFFER
Q1817,1818 BUFFER
Q1819,1820 BUFFER
IC1304(2/3)
TP1318 R OUT
TP1319 G OUT
TP1320 B OUT
IC1701 LPF-SELECT
LPF0
LPF1
LPF2
X0 X1 X2 X3 X4 X5
IC1307 EE PROM
SDAEEP
SCLEEP
IC1901 D/A CONVERTER
DAC0 DAC1 DAC2 DAC3 DAC4
SHARPNESS
SWO
VFIX/OTHERS
SDA
SCL
SDA EEP
SCL EEP
CN1301(4/4)
R OUT(BB)
G OUT(BB)
B OUT(BB)
LPF0
LPF1
LPF2
SHARPNESS
HD OUT(M)
VD OUT(M)
BAC-SDA
BAC-SCL
BA-SDA(E)
BA-SCL(E)
HD OUT(BC)
HD IN(BC)
HD OUT(BB)
VD OUT(BB)
CLP OUT(BB)
R OUT(IFB)
G OUT(IFB)
B OUT(IFB)
H/C OUT(IFB)
VD OUT(IFB)
CN203(4/4)
CN206(1/5)
R IN(BA)
G IN(BA)
B IN(BA)
LPF0(BA)
LPF1(BA)
LPF2(BA)
CN205(1/4)
H SYNC
V SYNC
BA-SDA(E)
BA-SCL(E)
H/C
VD
CN202(2/5)
HD IN(BA)
HD OUT(BA)
CN206(2/5)
HD IN(BA)
VD IN(BA)
CLP IN(BA)
CN201(2/4)
R IN
G IN
B IN
HS IN
VS IN
TO BB BOARD CN3001(1/2)
TO M BOARD CN2002(1/4)
TO BC BOARD CN4001(1/2)
TO BB BOARD CN3001(1/2)
TO EXTENTION BOARD CN6902
F
G
H
I
J
TP1551 R(IFB)
TP1552 G(IFB)
TP1553 B(IFB)
Q1558-Q1562 BUFFER &AMP
Q1563-Q1567 BUFFER &AMP
Q1568-Q1572 BUFFER &AMP
Q1554 SW
Q1555 SW
Q1556 SW
Q1557 INV.
BNC/OTHER
Q1022 BUFFER
FL1001
Q1020 BUFFER
Q1024 CV CLAMP
D1014
Q1023 SHIFT
IC1303 MONO-MULTI
SONG
IC1304(1/3)
IC1311 SENC SEP.
DET1 DET2 DET3 HPOL VPOL
SONG DET
H/C DET
VD DET
CPW2
PHS
TE
AUTO
PAT
CPD3
CPW0
CPW1
CPW3
X IN
X OUT
X1301 12.288MHz
HD IN
VD IN
HSYNC
VSYNC
CLAMP
IC1308 I/O EXPANDER
RGB/OTHER
BNC/OTHER
VAFC/OTHER
Q1343 INV.
Q1333 INV.
IC1310 I/O EXPANDER
IC1317
IC1312 SYNC SW
Q1362,1363 HD OUT
TP1314 HD
TP1315 VD
TP1316 CLP
Q1357 BUFFER
TP1307 H
TP1309 V
TP1308 CL
Q1354 CL-ADD
IC1304(3/3)
Q1344,1345 BUFF. &AMP
Q1355 INV.
Q1352 V-ADD
Q1356 SSCP BUFFER
Q1360,1361 HD OUT
Q1353 H-ADD
IC1314 +12V REG
+13.5V
IC1315 +5V REG
+6.2V
IC1313 +9V REG
+12V
+5V
+9V
TP1317 H(FB)
TP1313 V(FB)
+12V
Q1364 SONG CONT
Q1366-Q1368 SONG BUFF/AMP
Q1365 SONG CONT
IC1305(2/2)
IC1316(1/2) SONG OUT
R,G,B
SONG
R.G.B
Q1322 INV.
Q1316 SW
C.SYNC
Q1331 BUFFER
Y,R-Y, B-Y
H/C(IFB)
IC1318
IC1319
H/C
VD
H/C,VD
Q1303 BUFFER
Q1304 BUFFER
S1554 H ON
S1555 V ON
IC1301 SYNC SWITCH
Q1305 INV.
BNC/OTHER
Q1311 HD KILL
Q1309 VD KILL
Q1312,1318 LEVEL DET
Q1310,1317 LEVEL DET
IC1305 (1/2)
IC1316(2/2) H OUT
Q1358,1359 H OUT
IC1306(2/2)
Q1326 BUFFER

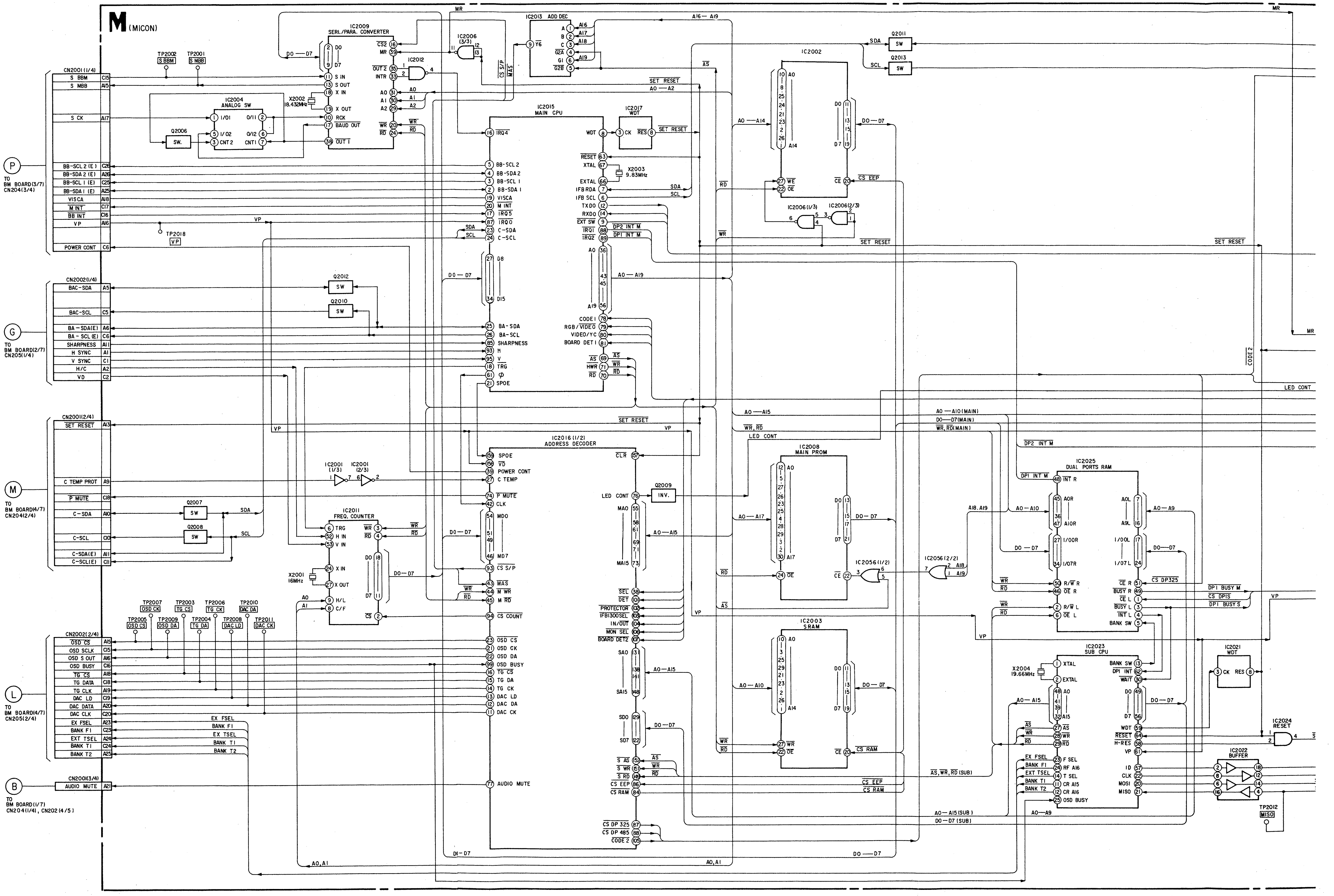

BB (SCAN CONVERTER)
R CHANNEL-1
R CHANNEL-2
G CHANNEL-1
B CHANNEL-1
G CHANNEL-2
B CHANNEL-2
C3001(1/2)
R IN(BA) A2
G IN(BA) A4
B IN(BA) A6
LPF0(BA) A21
LPF1(BA) A22
LPF2(BA) A23
CLP IN(BA) A10
HD IN(BA) A8
VD IN(BA) A9
SET RESET(M) A17
Q3001 BUFFER
Q3002 BUFFER
Q3003 BUFFER
TP3001 R IN
TP3002 G IN
TP3003 B IN
IC3005 R A/D CONVERTER
V IN
CCP
CLK
D O/L
D1
D2
D3
D4
D5
D6
D7
RAD0
RAD1
RAD2
RAD3
RAD4
RAD5
RAD6
RAD7
RAD0 — RAD7
IC3008 CLAMP LEVEL COMPARATOR
H
G
F
E
D
C
B
A
NOR
IC3011(3/3) CLAMP LEVEL GENERATOR
EB
IC3662(2/3) BUFF. & SEL.
LPF0
LPF1
LPF2
IC3412(8/8)
IC3412(6/8)
IC3412(7/8)
IC3412(1/8)
IC3404 (7/8)
SAME AS R CHANNEL-1
IC3006
IC3009
IC3011(2/3)
IC3007
IC3010
IC3011 (1/3)
G IN
B IN
GAD0 — GAD7
BAD0 — BAD7
ADCK
POW CNT
HD
VD
IC3660(1/2) BB CPU
H SYNC
V SYNC
WDT
RESET
SCK
BB INT
M INT
SCI OUT
VISCA
SCI IN
IC3655 W.D.T.
RES
CK
IC3659(1/2) BUFF. & SEL.
IC3658(4/4)
IC3658(3/4)
IC3659(2/2) BUFF. & SEL.
S3650
OFF: VISCA
ON: NORMAL
5V-4
HD, VD
VP
PWR CNT
CN3650
TXD
RXD
+5V
F
TO BM BOARD CN206(1/5)
I
TO BM BOARD CN206(2/5)
N
TO BM BOARD(4/7) CN206(4/5)
P
TO M BOARD CN2001(1/4)
Q
TO GB BOARD CN7005
BM (3/7) (MOTHER BOARD)
CN204(3/4)
CN206(5/5)
CN213
BB-SDA2(E)
BB-SCL2(E)
SCK
BB-SDA1(E)
BB-SCL1(E)
BB INT
M INT
S BBM
S MBB
VP
VISCA
POWER CONT(BBM)
POWER CONT(BBG)
SUB 5V
SCK(M)
BB INT(M)
M INT(M)
S BBM(M)
S MBB(M)
VP(M)
VISCA(M)
PWR CNT(M)
PW CNT(BB)
IC3100 LATCH
1D
8D
1Q
8Q
OC
CLK
LTCK1
LTCK2
RD00—RD07
ADDEN
IC3102 LINE MEMORY A
IC3103 LINE MEMORY B
DI0
DI7
RO0
RO7
WCK
RSTW
WE
RCK
RSTR
LMWCK
RSTWAB
LMWE A
LMWE B
LMRCKA
RSTRA
LMRCKB
RSTRB
RD10 — RD17
RD20 — RD27
IC3104 FRAME MEMORY A
IC3106 FRAME MEMORY B
DIN0
DIN7
DOUT0
DOUT7
WRS
WLRS
WCLR
RRS
RLRS
RCLR
FMWE A
FMWCKAC
WRS AC
WLRS AC
FMWE B
FMWCK BD
WRS BD
WLRS BD
CGR AC
FMRCKAC
RRS A
RLRS AC
CGR BD
FMRCK BD
RRS B
RLRS BD
RDA0—RDA7
RDB0—RDB7
IC3101 LATCH
ADOE
ADOE, ADDEN
TO G CHANNEL-2, B CHANNEL-2
IC3200
IC3201
IC3202
IC3203
IC3204
IC3206
SAME AS R CHANNEL-2
IC3300
IC3301
IC3302
IC3303
IC3304
IC3306
IC3004 +5V REG
IC3001 +5V REG
+6.2V
+5V
+5V-3

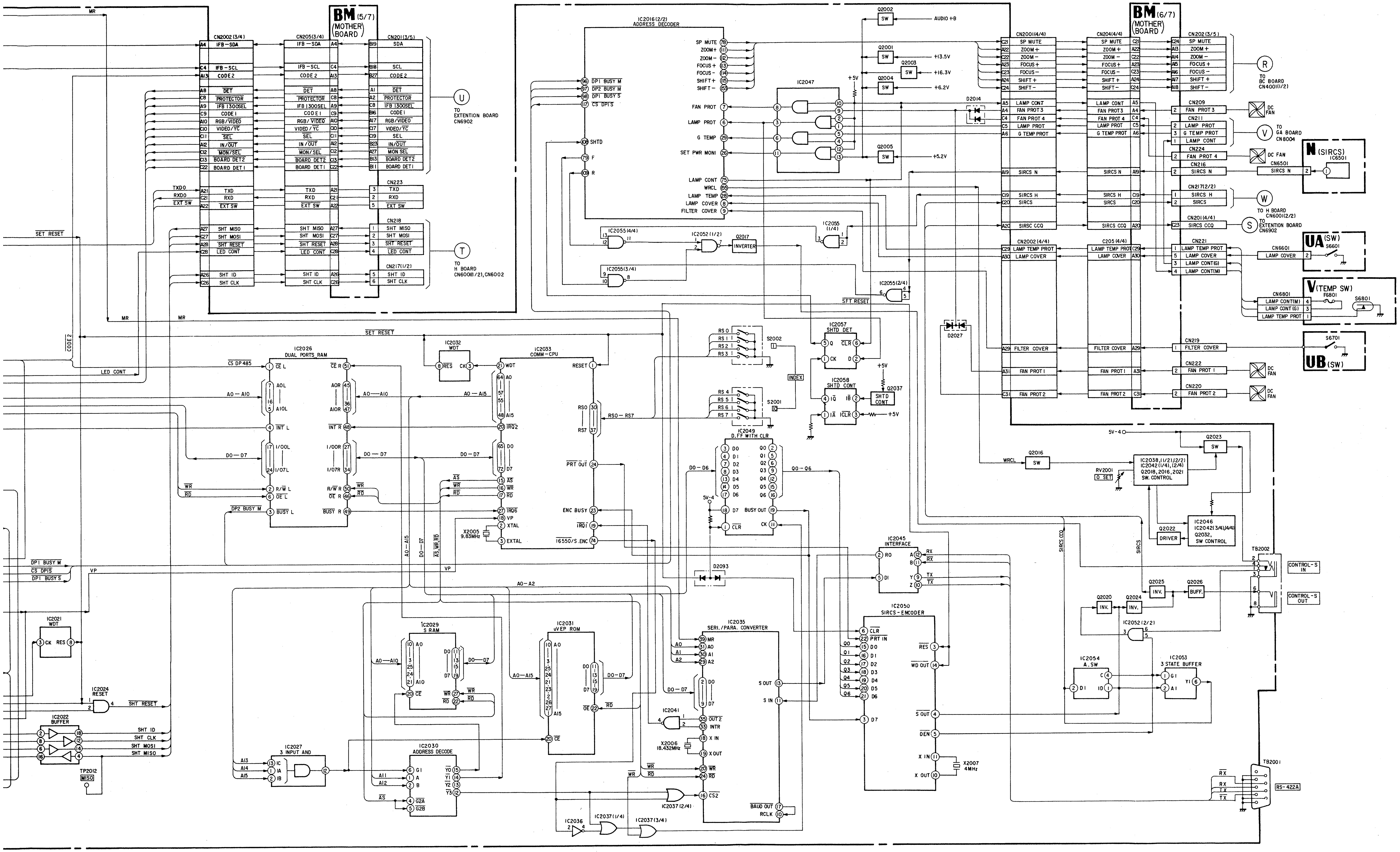

R CHANNEL-2
IC3100 LATCH
IC3102 LINE MEMORY A
IC3103 LINE MEMORY B
IC3101 LATCH
IC3104 FRAME MEMORY A
IC3106 FRAME MEMORY B
IC3105 FRAME MEMORY C
IC3107 FRAME MEMORY D
IC3108 VERTICAL DIGITAL FILTER
IC3600 3CH D/A CONVERTER
TP3603 RO
TP3602 GO
TP3600 BO
RV3600 GAIN
TGCK
HS OUT
VS OUT
IC3408 MEMORY CONTROLLER
IC3409(2/2)
IC3602
TP3606 CK
TP3605 HD
TP3604 VD
IC3409(1/2)
IC3410 VDF COEFFICIENT&FRAME MEMORY CONTROL ROM
IC3405
IC3404
IC3403
IC3401 DELAY
IC3402 FIELD CONVERT PULSE GENERATOR
IC3407 FIELD/FRAME SELECTOR
IC3406(1/4)
IC3406(2/4)
IC3406(3/4)
IC3406(4/4)
TP3400 VI
IC3400 CKO
X3400 42.00MHz
TP3403 CKO
TO G CHANNEL-2, B CHANNEL-2
G CHANNEL-2
IC3200
IC3201
IC3202
IC3203
IC3204
IC3205
IC3206
IC3207
IC3208
SAME AS R CHANNEL-2
B CHANNEL-2
IC3300
IC3301
IC3302
IC3303
IC3304
IC3305
IC3306
IC3307
IC3308
SAME AS R CHANNEL-2
RAD0-RAD7
GAD0-GAD7
BAD0-BAD7
ADCK
RDA0-RDA7
GDA0-GDA7
BDA0-BDA7
HD, VD
VP
POW CNT
IC3004 +5V REG
IC3001 +5V REG
+6.2V
+5V
+5V-3

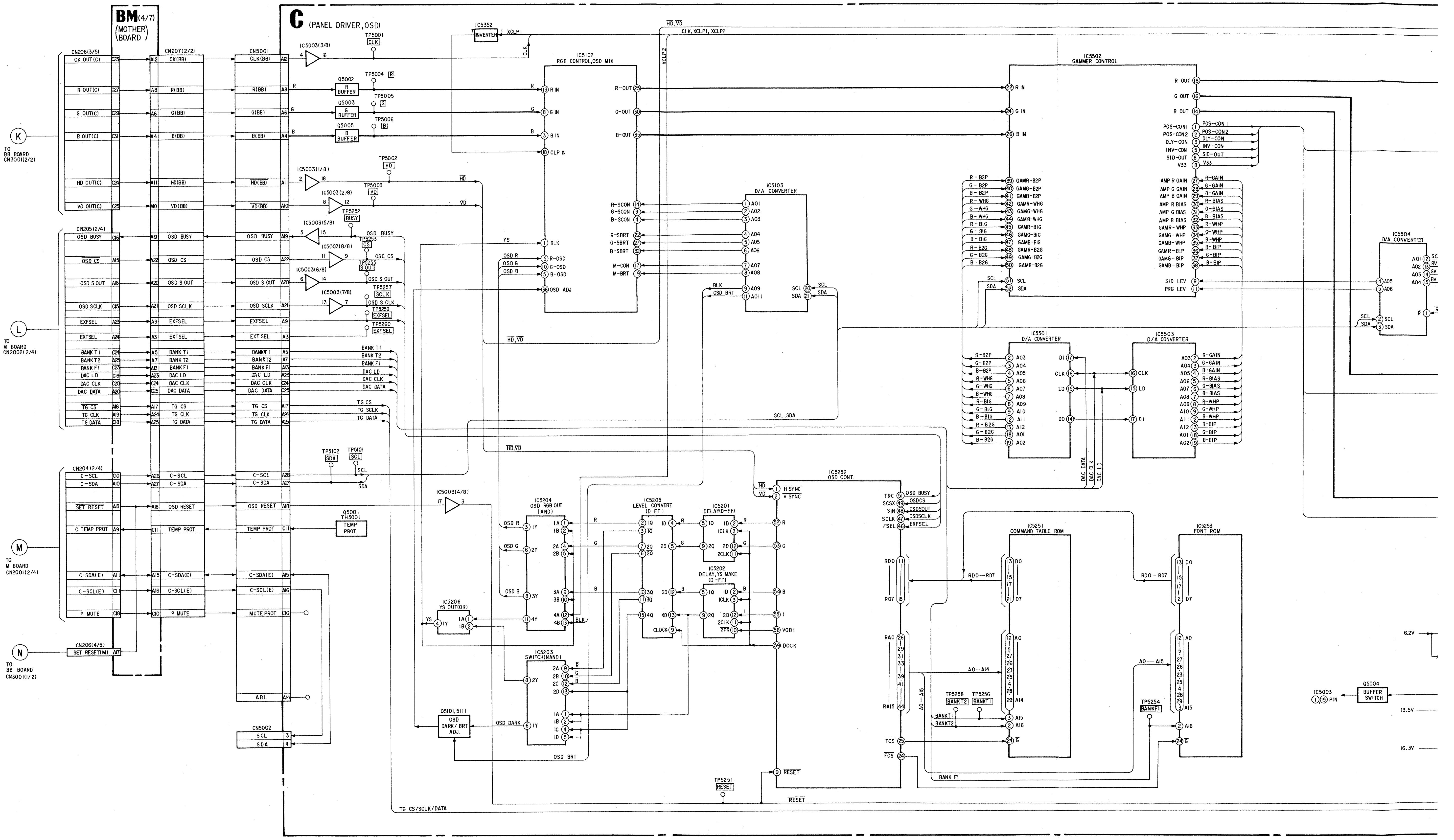

IC3108
DIGITAL FILTER
IC3600
3CH D/A CONVERTER
TP3603
TP3602
TP3600
RV3600
GAIN
CN3001(2/2)
R OUT(C)
G OUT(C)
B OUT(C)
CK OUT(C)
HD OUT(C)
VD OUT(C)
K
TO
BM BOARD(4/7)
CN206(3/5)
RDA0-RDA7
GDA0-GDA7
BDA0-BDA7
RD0-RD7
SDRX
SDTX
SCK
TGCK
HS OUT
VS OUT
DACK
CKL, CKR, CK FREE
IC3408
MEMORY CONTROLLER
IC3409(2/2)
IC3409(1/2)
IC3602
TP3606
TP3605
TP3604
IC3410
VDF COEFFICIENT&FRAME
MEMORY CONTROL ROM
RA0-RA17
RD0-RD3
IC3405
IC3404
IC3403
IC3401
DELAY
IC3402
FIELD CONVERT
PULSE GENERATOR
IC3406(1/4)
IC3406(2/4)
IC3406(3/4)
IC3406(4/4)
IC3407
FIELD/FRAME
SELECTOR
SELECT
TP3400
IC3400 CK0
TP3403
X3400
42.00MHz
IC3658(2/4)
IC3658(1/4)
MIXER
TP3652
IC3662(1/3)
BUFFER & SELECTOR
IC3660(2/2) BB CPU
IC3651
EEP ROM
TP3653
TP3651
IC3663(2/2)
BUFFER & SELECTOR
IC3663(1/2)
BUFFER & SELECTOR
IC3661
BUFFER & SELECTOR
X3650
19.66MHz
Q3650
LED DRIVER
D3650
5V-4
IC3664
D/A CONVERTER
PHASE
IC3413(3/8)
IC3414(2/2)
BUFFER & SELECTOR
IC3413(4/8)
IC3415
PLL
IC3414(1/2)
BUFFER & SELECTOR
TP3406
TP3405
IC3413(2/8)
IC3413(1/8)
IC3413(7/8)
IC3662(3/3)
IC3550
VIDEO PLL
IC3551(1/6)
IC3551(2/6)
IC3551(4/6)
PLL OUT
PLL IN
IC3413(5/8)
IC3413(6/8)
VIDEO
TP3404
IC3412(5/8)
IC3412(3/8)
IC3416
H DELAY
Q3400
BUFFER
Q3405
CLAMP
Q3401
BUFFER
Q3402
BUFFER
Q3403,3404
INVERTER & AMP
IC3412(2/8)
IC3412(4/8)
PWR CNT
IC3551(5/6)
RESET
VP
HD, VD
ADCK
ADOE, ADDEN
MUTE, VIDEO

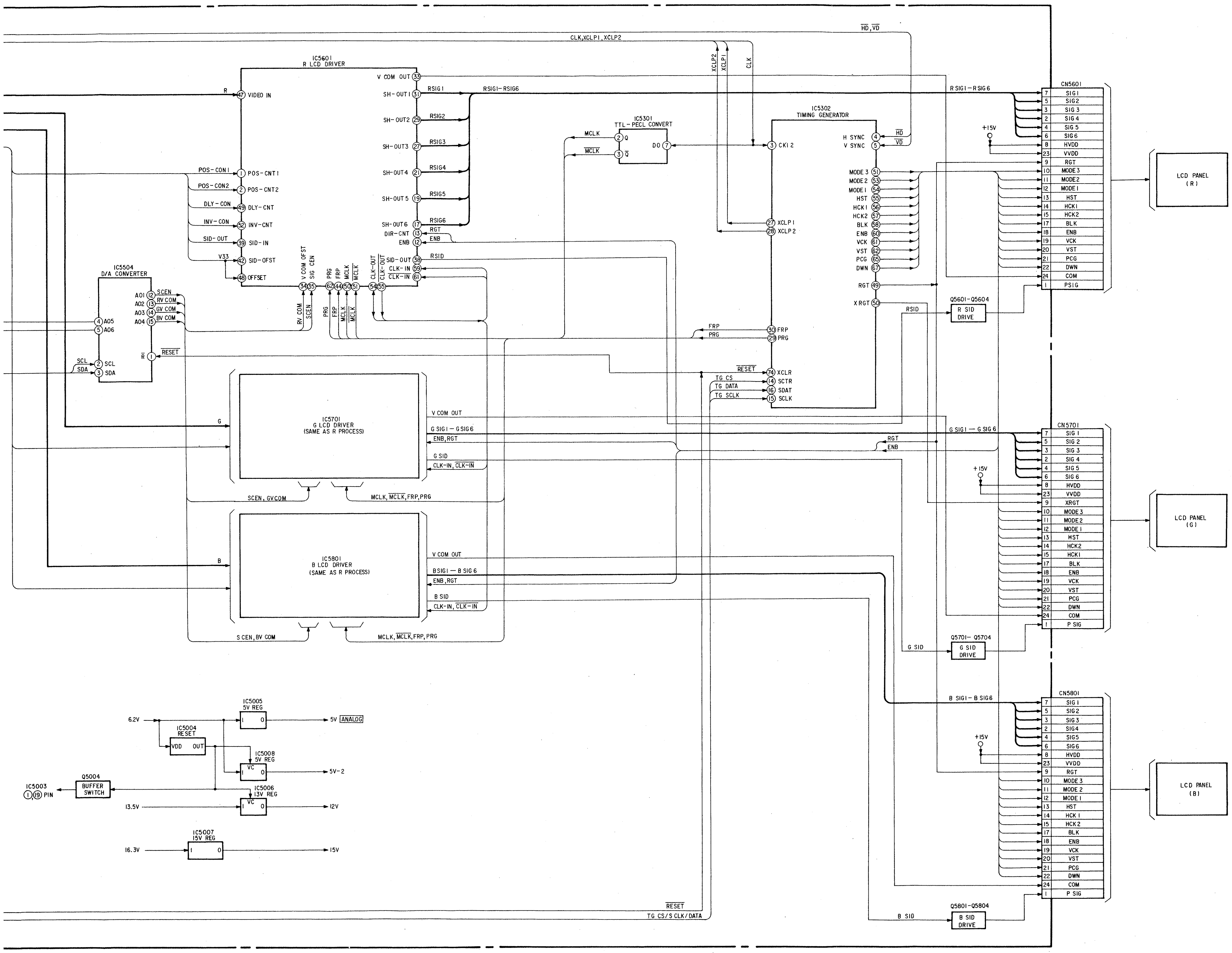

BC (AUDIO, MOTOR CONTROL, AFC)
TO BM BOARD(1/7) CN202(1/5)
TO BM BOARD(2/7) CN202(2/5)
TO BM BOARD(6/7) CN202(3/5)
CN4001(1/2)
AUDIO IN(L)
AUDIO IN(R)
SDA
SCL
HD OUT(BA)
HD IN(BA)
SP MUTE
ZOOM +(M)
ZOOM −(M)
FOCUS +(M)
FOCUS −(M)
SHIFT +(M)
SHIFT −(M)
TP4304 AUDIO L
TP4305 AUDIO R
TP4301 SDA
TP4302 SCL
TP4704 HD OUT
TP4701 HD IN
IC4300 AUDIO-PROCESS
L IN
R IN
L OUT
R OUT
IC4401 VAR-OUT
IC4400 L+R AMP
BIAS
L+R
IC4200 AUDIO AMP
R IN
R OUT
L OUT
INV.IN R
INV.IN L
Q4201 MUTE
Q4202 SWITCH
Q4902 MUTE
D4902
Q4901 SWITCH
−9V
+9V
Q4203 SW
Q4204 MUTE
Q4205 MUTE
Q4206,4207 MUTE SW
J4001 L
J4002 R
IC4720(2/3)
IC4720(1/3)
IC4721(1/2) HD REFORM
IC4720(3/3)
IC4721(2/2) HD REFORM
IC4716 RGB AFC
Q4711 BUFFER
SYNC SEP
AFC
H OSC
DRIVER
Q4712 BUFFER
IC4717
FBP GENERATOR
Q4710 WIDTH CONT
IC4715 PULSE DUTY DET
Q4709 BUFFER
TP4703 RGB H
+12V
RV4701 F-V
S4702 RGB HD OFF
Q4717,4718 VI CONV.
IC4718(2/2)
IC4718(1/2)
FV-CONVERTER
D4702 SPEED UP
IC4719 FV BUFF.
D4701 SPEED UP
Q4719 VI CONV.
RV4702 RGB AFC
IC4001 OR
IC4006 ZOOM MOTOR DRIVE
IN1
IN2
IC4004(2/6)
IC4004(3/6)
IC4005(1/3)
IC4002 OR
IC4007 FOCUS MOTOR DRIVE
IC4004(1/6)
IC4004(6/6)
IC4005(2/3)
IC4003 OR
IC4008 SHIFT MOTOR DRIVE
IC4004(4/6)
IC4004(5/6)
IC4005(3/3)
IC4550 +9V REG
13V
IC4714 +12V REG
CN4001(2/2)
AUDIO MUTE
TO BM BOARD CN202(4/5)
SP OUT +
SP OUT −
ZOOM +(LENSE)
ZOOM −(LENSE)
FOCUS +(LENSE)
FOCUS −(LENSE)
SHIFT +(LENSE)
SHIFT −(LENSE)
CN202(5/5)
CN208
SPEAKER
CN210
ZOOM +
ZOOM −
FOCUS +
FOCUS −
SHIFT +
SHIFT −
OPTICAL UNIT
BM (7/7) (MOTHER BOARD)
CN6002
LED CONT
SHT-RESET
SHT-MOSI
SHT-MISO
TO BM BOARD(5/7) CN217(1/2), CN218
CN6001(1/2)
SHT-ID
SHT-CLK
CN6001(2/2)
SIRCS
SIRCS H
TO BM BOARD(6/7) CN217(2/2)


H (CONTROL PANEL)
5V-4
+5.2V
Q6010 SWITCH
Q6009 LED DRIVE
D6066 STAND BY
D6021
D6022
D6029
D6030
D6023
D6035
D6036
D6038
D6039
D6040
D6037
D6041 A.MUTE
D6042 P.MUTE
D6046 VOLUME-
D6043
D6044 MEMORY
D6045 RESET
D6047 RIGHT
D6048 DOWN
D6050 UP
D6051 LEFT
D6052 ENTER
D6049 VOLUME +
D6053 SHIFT +
D6054 SHIFT −
D6056 ZOOM +
D6057 ZOOM −
D6058 FOCUS +
D6055 MENU
D6059 S VIDEO
D6060 PATTERN
D6063 INPUT A
D6064 INPUT B
D6065 VIDEO
D6061 FOCUS −
D6067 ON
D6068 OFF
D6069 LIGHT
Q6004 LED DRIVE
Q6005 LED DRIVE
Q6006 LED DRIVE
Q6007 LED DRIVE
Q6008 LED DRIVE
Q6003 INVERT
CN6002
LED CONT 4
SHT-RESET 3
SHT-MOSI 2
SHT-MISO 1
T
TO BM BOARD(5/7) CN217(1/2), CN218
IC6001 BUFFER
IC6003 SIRCS CPU
1 RESET
12 SDI/ DMP-MOSI
11 SDO/ DMP-MISO
15 7/DOCONT
23 PD5/ DMP-ID
2 IRQ/ DMP-ID
13 SCK/ DMP-CLK
25 TCAP/ SIRCS-IN
27 OSC1
26 OSC2
X6001
PC0/KS0 22
1/-1 21
2/-2 20
3/-3 19
3
10
4/LED0 18
5/LED1 17
KEY INPUT
KEY INPUT
KEY INPUT
KEY INPUT
CN6001(1/2)
SHT-ID 5
SHT-CLK 6
CN6001(2/2)
SIRCS 2
SIRCS H 1
W
TO BM BOARD(6/7) CN217(2/2)
IC6002 REMOTE CONTROL RECEIVER
1 OUT
S6001 A.MUTE
S6002 P.MUTE
S6003 MEMORY
S6004 RESET
S6005 VOLUME −
S6006 RIGHT
S6007 DOWN
S6008 VOLUME +
S6009 UP
S6010 LEFT
S6011 ENTER
S6012 SHIFT +
S6013 SHIFT −
S6014 MENU
S6015 ZOOM +
S6016 ZOOM −
S6017 FOCUS+
S6018 S VIDEO
S6019 PATTERN
S6020 FOCUS −
S6021 INPUT A
S6022 INPUT B
S6023 VIDEO
S6024 ON
S6025 OFF
S6026 LIGHT
5V-4
Q6001 5V SW
Q6002 5V SW
D6062 POWER
D6004 LED 10
D6009 LED 1

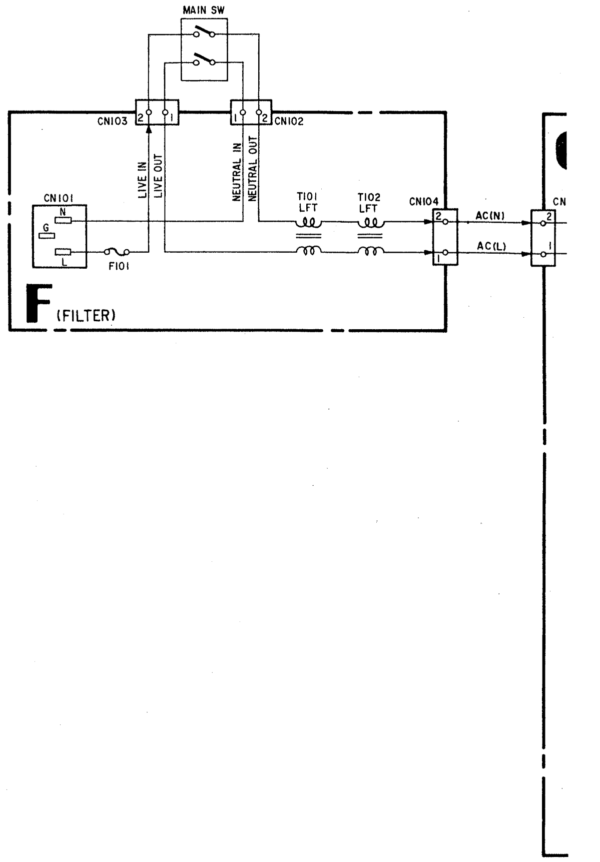

M (MICON)
IC2009 SERI./PARA. CONVERTER
IC2004 ANALOG SW
IC2012
IC2006 (3/3)
IC2013 ADD DEC
IC2015 MAIN CPU
IC2017 WDT
IC2002
Q2011 SW
Q2013 SW
Q2006 SW.
X2002 18.432MHz
X2003 9.83MHz
IC2006(1/3)
IC2006(2/3)
Q2012 SW
Q2010 SW
IC2016 (1/2) ADDRESS DECODER
IC2001 (1/3)
IC2001 (2/3)
Q2007 SW
Q2008 SW
Q2009 INV.
IC2011 FREQ. COUNTER
X2001 16MHz
IC2008 MAIN PROM
IC2056(1/2)
IC2056(2/2)
IC2003 SRAM
IC2025 DUAL PORTS RAM
IC2023 SUB CPU
X2004 19.66MHz
IC2021 WDT
IC2024 RESET
IC2022 BUFFER
TP2012 MISO
TP2002 S BBM
TP2001 S MBB
TP2018 VP
TP2007 OSD CK
TP2003 TG CS
TP2006 TG CK
TP2010 DAC DA
TP2005 OSD CS
TP2009 OSD DA
TP2004 TG DA
TP2008 DAC LD
TP2011 DAC CK
CN2001(1/4)
P
TO BM BOARD(3/7) CN204(3/4)
CN2002(1/4)
G
TO BM BOARD(2/7) CN205(1/4)
CN2001(2/4)
M
TO BM BOARD(4/7) CN204(2/4)
CN2002(2/4)
L
TO BM BOARD(4/7) CN205(2/4)
CN2001(3/4)
B
TO BM BOARD(1/7) CN204(1/4), CN202(4/5)
S BBM
S MBB
S CK
BB-SCL 2 (E)
BB-SDA 2 (E)
BB-SCL 1 (E)
BB-SDA 1 (E)
VISCA
M INT
BB INT
VP
POWER CONT
BAC-SDA
BAC-SCL
BA-SDA(E)
BA-SCL(E)
SHARPNESS
H SYNC
V SYNC
H/C
VD
SET RESET
C TEMP PROT
P MUTE
C-SDA
C-SCL
C-SDA(E)
C-SCL(E)
OSD CS
OSD SCLK
OSD S OUT
OSD BUSY
TG CS
TG DATA
TG CLK
DAC LD
DAC DATA
DAC CLK
EX FSEL
BANK F1
EXT TSEL
BANK T1
BANK T2
AUDIO MUTE
MR
LED CONT
SET RESET
CODE 2
DP2 INT M
DP1 INT M
DP1 BUSY M
CS DP1S
DP1 BUSY S
CS EEP
CS RAM
CS DP325
A0—A19
D0—D7
A0—A15 (SUB)
D0—D7 (SUB)
A0—A10 (MAIN)
D0—D7 (MAIN)
WR, RD (MAIN)
AS, WR, RD (SUB)

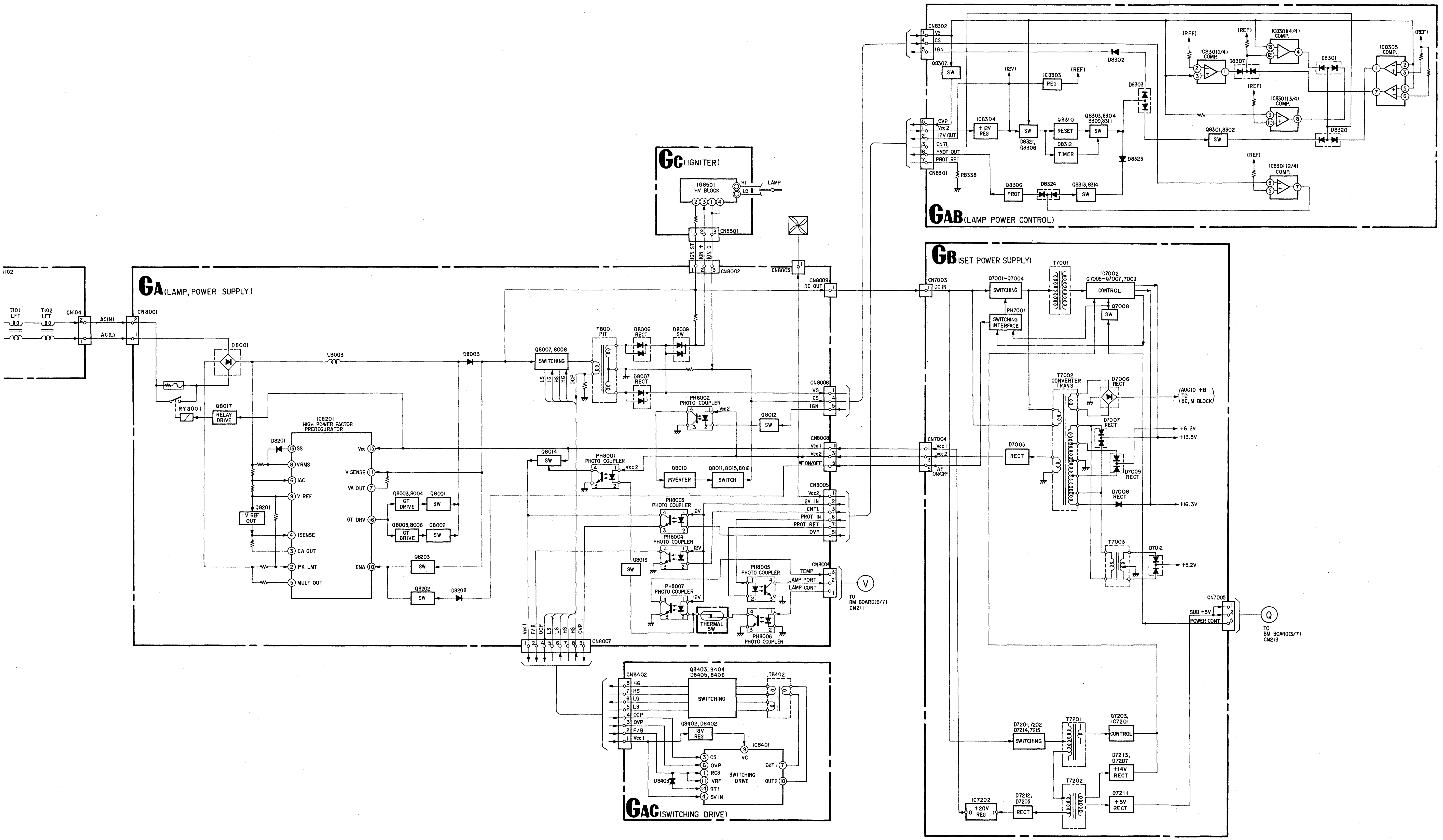

BM (5/7) (MOTHER BOARD)
BM (6/7) (MOTHER BOARD)
CN2002 (3/4)
CN205 (3/4)
CN201 (3/5)
CN223
CN218
CN217 (1/2)
TO EXTENTION BOARD CN6902
TO H BOARD CN6001(1/2), CN6002
IC2016 (2/2) ADDRESS DECODER
IC2047
Q2002 SW AUDIO +B
Q2001 SW +13.5V
Q2003 SW +16.3V
Q2004 SW +6.2V
Q2005 SW +5.2V
D2014
CN2001 (4/4)
CN204 (4/4)
CN202 (3/5)
TO BC BOARD CN4001(1/2)
CN209 DC FAN
CN211
TO GA BOARD CN8004
CN224 DC FAN
CN216
N (SIRCS) CN6501 IC6501
CN217 (2/2)
TO H BOARD CN6001(2/2)
CN201 (4/4)
TO EXTENTION BOARD CN6902
CN2002 (4/4)
C205 (4/4)
CN221
UA (SW) CN6601 S6601
V (TEMP SW) CN6801 F6801 S6801
CN219
UB (SW) S6701
CN222 DC FAN
CN220 DC FAN
IC2055 (4/4)
IC2052 (1/2)
Q2017 INVERTER
IC2055 (3/4)
IC2055 (1/4)
IC2055 (2/4)
SFT RESET
IC2057 SHTD DET
IC2058 SHTD CONT
Q2037 SHTD CONT
S2002 INDEX
S2001
D2027
IC2026 DUAL PORTS RAM
IC2032 WDT
IC2033 COMM-CPU
X2005 9.83MHz
IC2049 D.FF WITH CLR
D2093
IC2045 INTERFACE
Q2016 SW
RV2001 0 SET
IC2038, (1/2), (2/2) IC2042 (1/4), (2/4) Q2018, 2016, 2021 SW. CONTROL
Q2023 SW
Q2022 DRIVER
IC2046 IC2042 (3/4), (4/4) Q2032, SW CONTROL
TB2002
CONTROL-S IN
CONTROL-S OUT
Q2025 INV.
Q2026 BUFF.
Q2020 INV.
Q2024 INV.
IC2052 (2/2)
IC2054 A.SW
IC2053 3 STATE BUFFER
IC2050 SIRCS-ENCODER
X2007 4MHz
TB2001
RS-422A
IC2021 WDT
IC2024 RESET
IC2022 BUFFER
TP2012 MISO
IC2029 S RAM
IC2031 uVEP ROM
IC2027 3 INPUT AND
IC2030 ADDRESS DECODE
IC2035 SERI./PARA. CONVERTER
X2006 18.432MHz
IC2041
IC2036
IC2037 (1/4)
IC2037 (2/4)
IC2037 (3/4)
SET RESET
LED CONT
CODE 2
MR
DP1 BUSY M
CS DP1S
DP1 BUSY S
VP
A0—A2
A0—A10
A0—A15
D0—D7
D0—D6
Q0—Q6
RS0—RS7
WRCL
5V-4
SIRCS CCQ
SIRCS


BM (4/7) (MOTHER BOARD)
C (PANEL DRIVER, OSD)
TO BB BOARD CN3001(2/2)
TO M BOARD CN2002(2/4)
TO M BOARD CN2001(2/4)
TO BB BOARD CN3001(1/2)
CN206(3/5)
CN207(2/2)
CN5001
CN205(2/4)
CN204(2/4)
CN206(4/5)
CN5002
CK OUT(C)
R OUT(C)
G OUT(C)
B OUT(C)
HD OUT(C)
VD OUT(C)
OSD BUSY
OSD CS
OSD S OUT
OSD SCLK
EXFSEL
EXTSEL
BANK T1
BANK T2
BANK F1
DAC LD
DAC CLK
DAC DATA
TG CS
TG CLK
TG DATA
C-SCL
C-SDA
SET RESET
C TEMP PROT
C-SDA(E)
C-SCL(E)
P MUTE
SET RESET(M)
OSD RESET
TEMP PROT
MUTE PROT
ABL
SCL
SDA
IC5352 INVERTER
IC5003(3/8)
IC5003(1/8)
IC5003(2/8)
IC5003(5/8)
IC5003(8/8)
IC5003(6/8)
IC5003(7/8)
IC5003(4/8)
TP5001 CLK
TP5004 R
TP5005 G
TP5006 B
TP5002 HD
TP5003 VD
TP5252 BUSY
TP5253 CS
TP5255 S OUT
TP5257 SCLK
TP5259 EXFSEL
TP5260 EXTSEL
TP5102 SDA
TP5101 SCL
Q5002 R BUFFER
Q5003 G BUFFER
Q5005 B BUFFER
Q5001 TH5001 TEMP PROT
IC5102 RGB CONTROL, OSD MIX
R IN
G IN
B IN
CLP IN
BLK
R-OSD
G-OSD
B-OSD
OSD ADJ
R-OUT
G-OUT
B-OUT
R-SCON
G-SCON
B-SCON
R-SBRT
G-SBRT
B-SBRT
M-CON
M-BRT
IC5103 D/A CONVERTER
IC5502 GAMMER CONTROL
R OUT
G OUT
B OUT
POS-CON1
POS-CON2
DLY-CON
INV-CON
SID-OUT
V33
GAMR-B2P
GAMG-B2P
GAMB-B2P
GAMR-WHG
GAMG-WHG
GAMB-WHG
GAMR-BIG
GAMG-BIG
GAMB-BIG
GAMR-B2G
GAMG-B2G
GAMB-B2G
AMP R GAIN
AMP G GAIN
AMP B GAIN
AMP R BIAS
AMP G BIAS
AMP B BIAS
GAMR-WHP
GAMG-WHP
GAMB-WHP
GAMR-BIP
GAMG-BIP
GAMB-BIP
SID LEV
PRG LEV
IC5504 D/A CONVERTER
IC5501 D/A CONVERTER
IC5503 D/A CONVERTER
HD, VD
CLK, XCLP1, XCLP2
XCLP2
SCL, SDA
IC5252 OSD CONT.
H SYNC
V SYNC
TRC
SCSX
SIN
SCLK
FSEL
OSDCS
OSDSOUT
OSDSCLK
VOB1
DOCK
RESET
TCS
FCS
IC5204 OSD RGB OUT (AND)
IC5205 LEVEL CONVERT (D-FF)
IC5201 DELAY(D-FF)
IC5202 DELAY, YS MAKE (D-FF)
IC5206 YS OUT(OR)
IC5203 SWITCH(NAND)
Q5101, 5111 OSD DARK/BRT ADJ.
OSD DARK
OSD BRT
CLOCK
IC5251 COMMAND TABLE ROM
IC5253 FONT ROM
RD0 - RD7
A0 - A14
A0 - A15
TP5258 BANKT2
TP5256 BANKT1
TP5254 BANKF1
BANK F1
TP5251 RESET
TG CS/SCLK/DATA
DAC DATA
DAC CLK
DAC LD
Q5004 BUFFER SWITCH
IC5003 (1)(19) PIN
6.2V
13.5V
16.3V



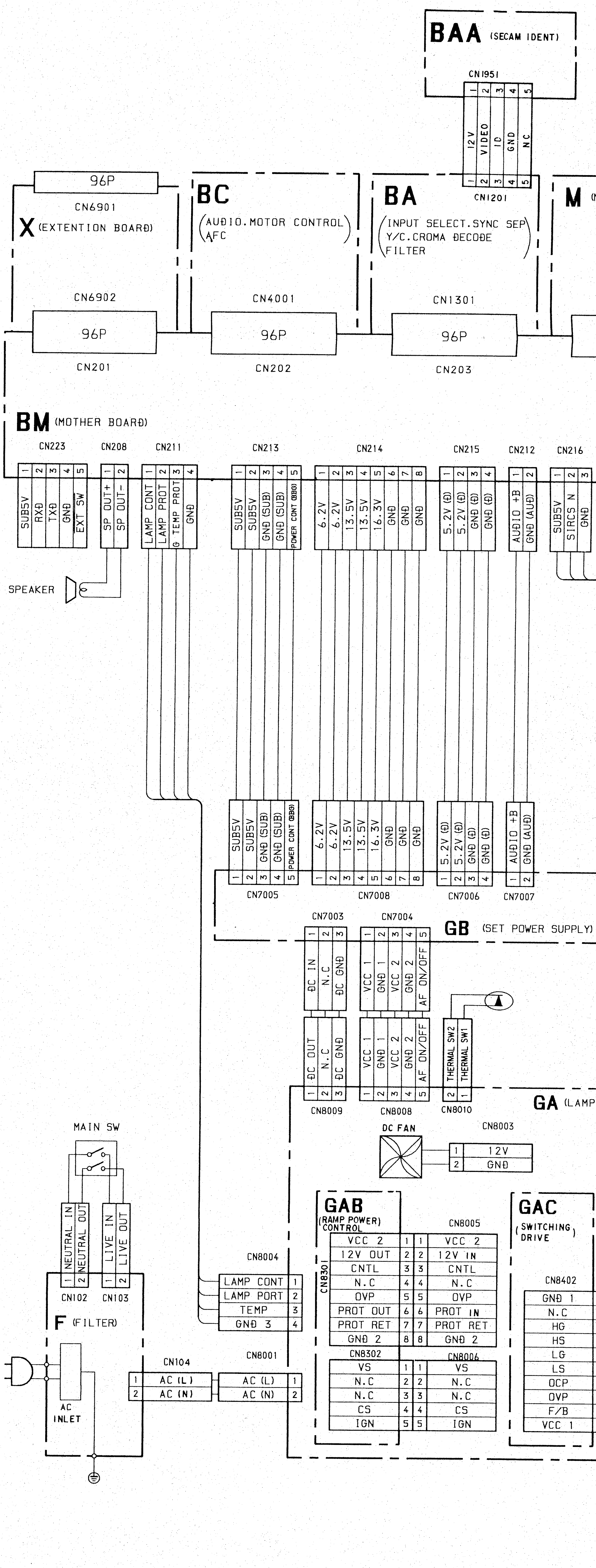
IC5601
R LCD DRIVER
VIDEO IN
POS-CNT1
POS-CNT2
DLY-CNT
INV-CNT
SID-IN
SID-OFST
OFFSET
V COM OUT
SH-OUT1
SH-OUT2
SH-OUT3
SH-OUT4
SH-OUT5
SH-OUT6
DIR-CNT
ENB
SID-OUT
CLK-IN
V COM OFST
SIG CEN
PRG
FRP
MCLK
CLK-OUT
RSIG1–RSIG6
IC5504
D/A CONVERTER
SCEN
RV COM
GV COM
BV COM
SCL
SDA
RESET
IC5301
TTL-PECL CONVERT
IC5302
TIMING GENERATOR
CK1 2
XCLP1
XCLP2
H SYNC
V SYNC
HD, VD
CLK,XCLP1,XCLP2
MODE 3
MODE 2
MODE 1
HST
HCK1
HCK2
BLK
VCK
VST
PCG
DWN
RGT
XRGT
RSID
XCLR
SCTR
SDAT
SCLK
TG CS
TG DATA
TG SCLK
IC5701
G LCD DRIVER
(SAME AS R PROCESS)
G SIG1 – G SIG6
ENB,RGT
G SID
CLK-IN, CLK-IN
SCEN, GVCOM
MCLK, MCLK, FRP, PRG
IC5901
B LCD DRIVER
(SAME AS R PROCESS)
B SIG1 – B SIG6
B SID
S CEN, BV COM
CN5601
CN5701
CN5801
SIG1
SIG2
SIG3
SIG4
SIG5
SIG6
HVDD
VVDD
COM
PSIG
+15V
Q5601–Q5604
R SID DRIVE
Q5701–Q5704
G SID DRIVE
Q5801–Q5804
B SID DRIVE
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
IC5005
5V REG
IC5004
RESET
IC5008
5V REG
IC5006
13V REG
IC5007
15V REG
Q5004
BUFFER SWITCH
IC5003 (1)(9) PIN
6.2V
13.5V
16.3V
5V ANALOG
5V-2
12V
15V
TG CS/S CLK/DATA

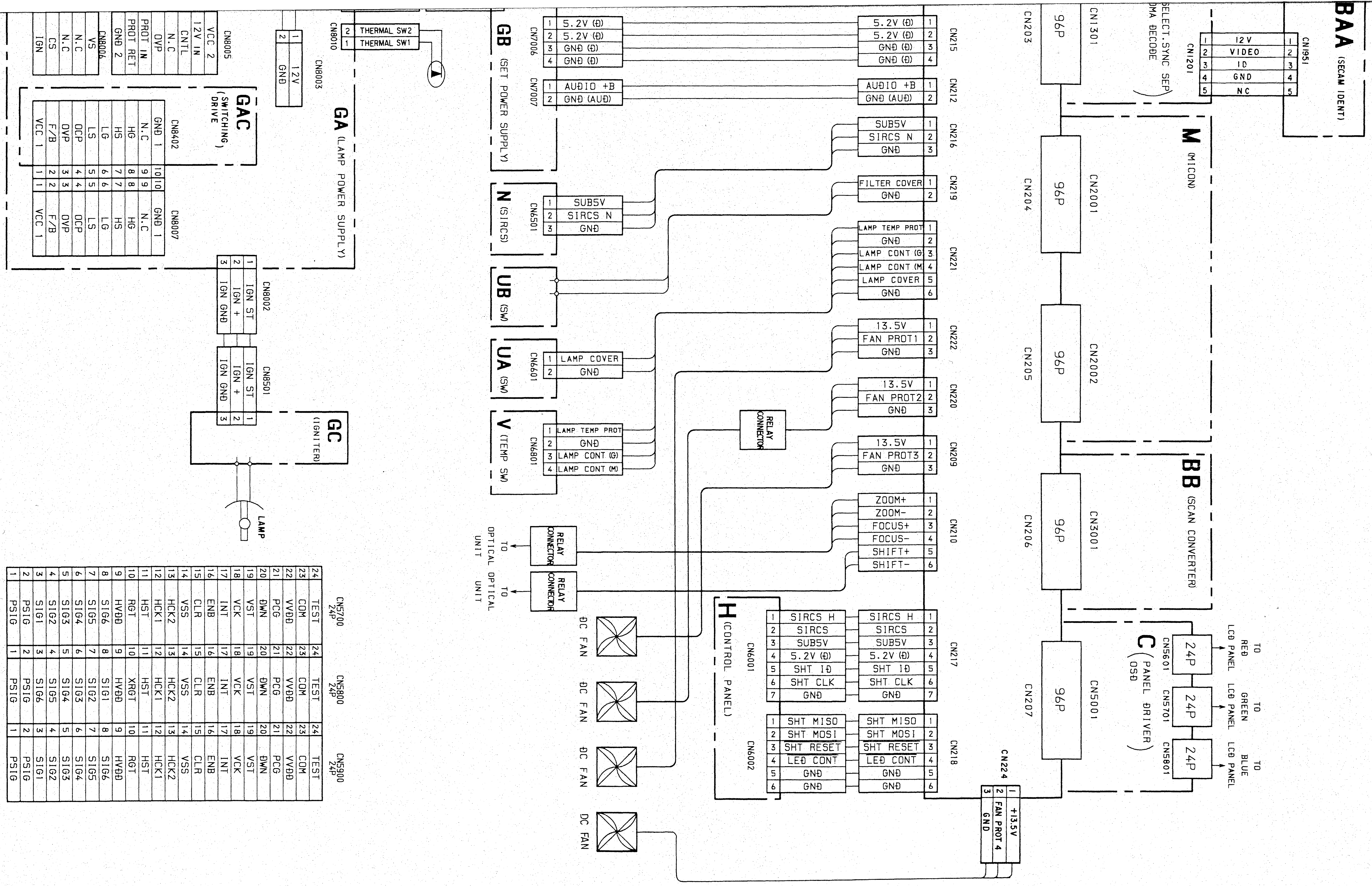

MAIN SW
CN103
2
1
CN102
1
2
LIVE IN
LIVE OUT
NEUTRAL IN
NEUTRAL OUT
CN101
N
G
L
F101
T101
LFT
T102
LFT
CN104
2
1
AC(N)
AC(L)
CN
2
1
F
(FILTER)

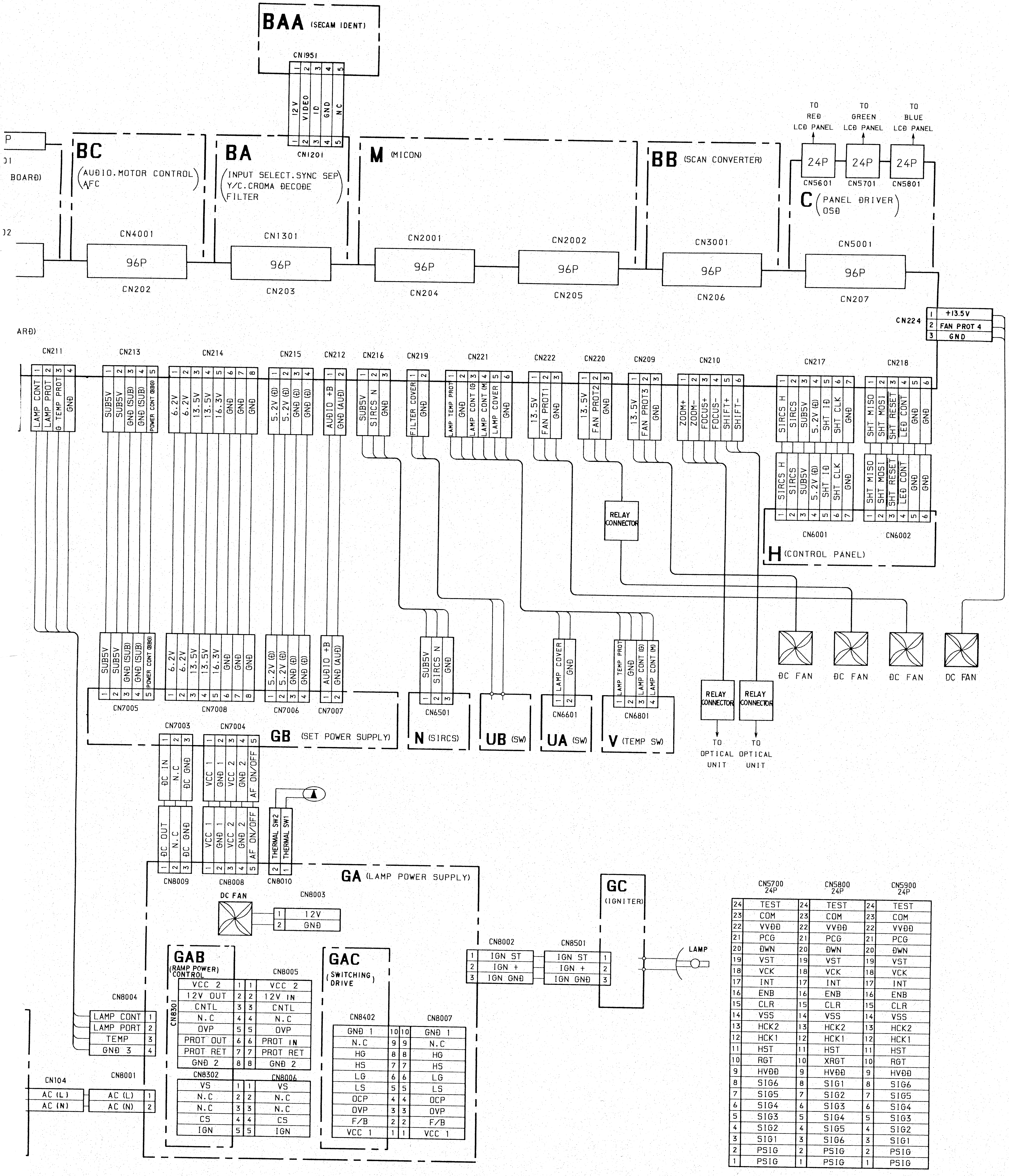

GC (IGNITER)
IG8501 HV BLOCK
LAMP
HI
LO
CN8501
IGN ST
IGN +
IGN G
CN8002
CN8003
GAB (LAMP POWER CONTROL)
CN8302
VS
CS
IGN
Q8307 SW
D8302
IC8303 REG
(12V)
(REF)
IC8301(1/4) COMP.
IC8501(4/4) COMP.
D8307
D8301
IC8305 COMP.
D8303
CN8301
OVP
Vcc2
12V OUT
CNTL
PROT OUT
PROT RET
IC8304 +12V REG
SW
D8321, Q8308
Q8310 RESET
Q8312 TIMER
Q8303,8304 8309,8311 SW
Q8301,8302 SW
IC8301(3/4) COMP.
D8320
D8323
R8338
Q8306 PROT
D8324
Q8313,8314 SW
IC8301(2/4) COMP.
GA (LAMP, POWER SUPPLY)
T101 LFT
T102 LFT
CN104
AC(N)
AC(L)
CN8001
D8001
L8003
D8003
RY8001
Q8017 RELAY DRIVE
IC8201 HIGH POWER FACTOR PREREGURATOR
D8201
SS
VRMS
IAC
V REF
ISENSE
CA OUT
PK LMT
MULT OUT
Vcc
V SENSE
VA OUT
GT DRV
ENA
Q8201 V REF OUT
Q8003,8004 GT DRIVE
Q8001 SW
Q8005,8006 GT DRIVE
Q8002 SW
Q8203 SW
Q8202 SW
D8208
Q8007,8008 SWITCHING
LS LG HS HG OCP
T8001 PIT
D8006 RECT
D8009 SW
D8007 RECT
PH8002 PHOTO COUPLER
Q8012 SW
Q8014 SW
PH8001 PHOTO COUPLER
Q8010 INVERTER
Q8011,8015,8016 SWITCH
PH8003 PHOTO COUPLER
PH8004 PHOTO COUPLER
Q8013 SW
PH8007 PHOTO COUPLER
THERMAL SW
PH8006 PHOTO COUPLER
PH8005 PHOTO COUPLER
CN8009 DC OUT
CN8006 VS CS IGN
CN8008 Vcc1 Vcc2 AF ON/OFF
CN8005 Vcc2 12V IN CNTL PROT IN PROT RET OVP
CN8004 TEMP LAMP PORT LAMP CONT
TO BM BOARD(6/7) CN211
CN8007
Vcc1 F/B OCP LS LG HS HG OVP
GAC (SWITCHING DRIVE)
CN8402
HG HS LG LS OCP OVP F/B Vcc1
Q8403,8404 Q8405,8406 SWITCHING
T8402
Q8402,D8402 18V REG
IC8401
CS OVP RCS VRF RT1 SV IN
VC
SWITCHING DRIVE
OUT1 OUT2
D8403
GB (SET POWER SUPPLY)
CN7003 DC IN
Q7001~Q7004 SWITCHING
PH7001 SWITCHING INTERFACE
T7001
IC7002 Q7005~Q7007,7009 CONTROL
Q7008 SW
T7002 CONVERTER TRANS
D7006 RECT
AUDIO +B TO BC, M BLOCK
D7007 RECT
+6.2V
+13.5V
D7009 RECT
CN7004 Vcc1 Vcc2 AF ON/OFF
D7005 RECT
D7008 RECT
+16.3V
T7003
D7012
+5.2V
CN7005
SUB +5V
POWER CONT
TO BM BOARD(3/7) CN213
D7201,7202 D7214,7215 SWITCHING
T7201
Q7203, IC7201 CONTROL
D7213, D7207 +14V RECT
T7202
D7211 +5V RECT
IC7202 +20V REG
D7212, D7205 RECT

7-2. FRAME SCHEMATIC DIAGRAM

	CN201 CN6901 CN6902 96P		CN202 CN4001 96P		CN203 CN1301 96P		CN204 CN2001 96P		CN205 CN2002 96P		CN206 CN3001 96P		CN207 CN5001 96P
A1	$\overline{\text{DET}}$	A1	GND	A1	GND	A1	GND	A1	H SYNC	A1	6.2V	A1	5.2V (D)
B1	AUDIO L IN	B1	GND	B1	GND	B1	GND	B1	GND	B1	6.2V	B1	5.2V (D)
C1	GND	C1	GND	C1	GND	C1	GND	C1	V SYNC	C1	6.2V	C1	5.2V (D)
A2	$\overline{\text{PROTECTOR}}$	A2	AUDIO+B	A2	AUOUTL (BC)	A2	AUDIO+B	A2	H/C	A2	R IN (BA)	A2	5.2V (D)
B2	5.2V (D)	B2	AUDIO+B	B2	GND	B2	AUDIO+B	B2	GND	B2	GND	B2	5.2V (D)
C2	NC	C2	AUDIO+B	C2	R OUT (BB)	C2	AUDIO+B	C2	VD	C2	GND	C2	5.2V (D)
A3	GND	A3	GND	A3	AUOUTR (BC)	A3	GND	A3	GND	A3	NC	A3	EXTSEL
B3	R IN	B3	GND	B3	GND	B3	GND	B3	GND	B3	GND	B3	GND
C3	R IN	C3	GND	C3	GND	C3	GND	C3	GND	C3	GND	C3	GND
A4	+B	A4	SP OUT+	A4	GND	A4	FAN PROT3	A4	IFB-SDA	A4	G IN (BA)	A4	B (BB)
B4	+B	B4	SP OUT+	B4	GND	B4	GND	B4	GND	B4	GND	B4	GND
C4	+B	C4	SP OUT+	C4	G OUT (BB)	C4	FAN PROT 4	C4	IFB-SCL	C4	GND	C4	GND
A5	-15.5V	A5	SP OUT-	A5	AUOUTL (IFB)	A5	LAMP CONT	A5	BAC-SDA	A5	NC	A5	BANKT1
B5	G IN	B5	SP OUT-	B5	GND	B5	GND	B5	GND	B5	GND	B5	GND
C5	G IN	C5	SP OUT-	C5	GND	C5	LAMP PROT	C5	BAC-SCL	C5	GND	C5	GND
A6	GND	A6	GND	A6	AUOUTR (IFB)	A6	G TEMP PROT	A6	BA-SDA (E)	A6	B IN (BA)	A6	G (BB)
B6	AUDIO R IN	B6	GND	B6	GND	B6	GND	B6	GND	B6	GND	B6	GND
C6	GND	C6	GND	C6	B OUT (BB)	C6	POWER CONT	C6	BA-SCL (E)	C6	GND	C6	GND
A7	AUDIO L OUT	A7	GND	A7	GND	A7	NC	A7	GND	A7	NC	A7	BANKT2
B7	B IN	B7	GND	B7	GND	B7	GND	B7	GND	B7	GND	B7	GND
C7	B IN	C7	ZOOM+ (LENS)	C7	GND	C7	NC	C7	GND	C7	GND	C7	GND
A8	AUDIO R OUT	A8	GND	A8	AUINL (IFB)	A8	GND	A8	$\overline{\text{DET}}$	A8	HD IN (BA)	A8	R (BB)
B8	HS IN	B8	GND	B8	GND	B8	GND	B8	GND	B8	GND	B8	GND
C8	$\overline{\text{IFB1300SEL}}$	C8	ZOOM- (LENS)	C8	HD OUT (BBM)	C8	GND	C8	$\overline{\text{PROTECTOR}}$	C8	GND	C8	GND
A9	GND	A9	GND	A9	AUINR (IFB)	A9	C TEMP PROT	A9	$\overline{\text{IFB1300SEL}}$	A9	VD IN (BA)	A9	EXFSEL
B9	NC	B9	GND	B9	GND	B9	GND	B9	GND	B9	GND	B9	GND
C9	GND	C9	FOCUS+ (LENS)	C9	VD OUT (BBM)	C9	NC	C9	CODE1	C9	GND	C9	NC
A10	S ON G (QHD)	A10	GND	A10	GND	A10	C-SDA	A10	RGB/$\overline{\text{VIDEO}}$	A10	CLP IN (BA)	A10	$\overline{\text{VD (BB)}}$
B10	VS IN	B10	GND	B10	GND	B10	GND	B10	GND	B10	GND	B10	GND
C10	S ON G (QHD)	C10	FOCUS- (LENS)	C10	CLP OUT (BB)	C10	C-SCL	C10	VIDEO/$\overline{\text{YC}}$	C10	GND	C10	P MUTE
A11	GND	A11	GND	A11	R OUT (IFB)	A11	C-SDA (E)	A11	SHARPNESS	A11	BB-SDA2 (E)	A11	$\overline{\text{HD (BB)}}$
B11	BOARD DET1	B11	GND	B11	GND	B11	GND	B11	GND	B11	GND	B11	GND
C11	GND	C11	SHIFT+ (LENS)	C11	GND	C11	C-SCL (E)	C11	$\overline{\text{SEL}}$	C11	GND	C11	TEMP PROT
A12	H/C OUT	A12	GND	A12	GND	A12	GND	A12	IN/$\overline{\text{OUT}}$	A12	5.2V	A12	CK (BB)
B12	H/C OUT	B12	GND	B12	GND	B12	GND	B12	GND	B12	5.2V	B12	GND
C12	H/C OUT	C12	SHIFT- (LENS)	C12	AUDIO MUTE	C12	GND	C12	$\overline{\text{MON SEL}}$	C12	5.2V	C12	GND
A13	R-Y/ROUT	A13	ZOOM+ (M)	A13	G OUT (IFB)	A13	SET RESET	A13	CODE2	A13	5.2V	A13	BANKF1
B13	$\overline{\text{BOARD DET2}}$	B13	GND	B13	GND	B13	GND	B13	GND	B13	5.2V	B13	GND
C13	IDTV SEL	C13	GND	C13	ABL	C13	NC	C13	$\overline{\text{BOARD DET2}}$	C13	5.2V	C13	GND
A14	VD OUT	A14	ZOOM- (M)	A14	GND	A14	GND	A14	GND	A14	5.2V	A14	ABL
B14	VD OUT	B14	GND	B14	GND	B14	GND	B14	GND	B14	5.2V	B14	GND
C14	VD OUT	C14	GND	C14	LPF0	C14	GND	C14	GND	C14	5.2V	C14	GND
A15	Y/GOUT	A15	FOCUS+ (M)	A15	B OUT (IFB)	A15	S MBB	A15	$\overline{\text{OSD CS}}$	A15	5.2V	A15	C-SDA (E)
B15	IFB-1001IN/OUT	B15	GND	B15	GND	B15	GND	B15	GND	B15	5.2V	B15	GND
C15	B-Y/BOUT	C15	GND	C15	LPF1	C15	S BBM	C15	OSD SCLK	C15	5.2V	C15	GND
A16	GND	A16	FOCUS- (M)	A16	GND	A16	VP	A16	OSD S OUT	A16	BB-SCL2 (E)	A16	C-SCL (E)
B16	CODE1	B16	GND	B16	GND	B16	GND	B16	GND	B16	GND	B16	GND
C16	GND	C16	GND	C16	LPF2	C16	$\overline{\text{BB INT}}$	C16	OSD BUSY	C16	GND	C16	GND
A17	RGB/$\overline{\text{VIDEO}}$	A17	SHIFT+ (M)	A17	H/C OUT (IFB)	A17	S CK	A17	GND	A17	SETRESET (M)	A17	TG CS
B17	GND	B17	GND	B17	GND	B17	GND	B17	GND	B17	GND	B17	GND
C17	VIDEO/$\overline{\text{YC}}$	C17	GND	C17	BAC-SDA	C17	$\overline{\text{M INT}}$	C17	GND	C17	S MBB (M)	C17	GND
A18	SHARPNESS	A18	SHIFT- (M)	A18	VD OUT (IFB)	A18	VISCA	A18	$\overline{\text{TG CS}}$	A18	S BBM (M)	A18	OSD RESET
B18	SCL	B18	GND	B18	GND	B18	GND	B18	GND	B18	GND	B18	GND
C18	GND	C18	GND	C18	BAC-SCL	C18	$\overline{\text{P MUTE}}$	C18	TG DATA	C18	VP (M)	C18	GND
A19	GND	A19	NC	A19	GND	A19	SIRCS N	A19	TG CLK	A19	$\overline{\text{BB INT (M)}}$	A19	OSD BUSY
B19	SDA	B19	GND	B19	GND	B19	GND	B19	GND	B19	GND	B19	GND
C19	SEL	C19	GND	C19	BA-SDA (E)	C19	SIRCS H	C19	DAC LD	C19	S CK (M)	C19	GND
A20	GND	A20	NC	A20	H/C IN (IFB)	A20	SIRCS CCQ	A20	DAC DATA	A20	$\overline{\text{M INT (M)}}$	A20	OSD SOUT
B20	GND	B20	GND	B20	GND	B20	GND	B20	GND	B20	GND	B20	GND
C20	GND	C20	AUDIO IN (L)	C20	BA-SCL (E)	C20	SIRCS	C20	DAC CLK	C20	VISCA (M)	C20	GND
A21	R OUT	A21	NC	A21	VD IN (IFB)	A21	AUDIO MUTE	A21	TXD	A21	LPF0 (BA)	A21	OSD SCLK
B21	R OUT	B21	GND	B21	GND	B21	GND	B21	GND	B21	GND	B21	GND
C21	R OUT	C21	AUDIO IN (R)	C21	GND	C21	SP MUTE	C21	RXD	C21	BB-SDA1 (E)	C21	GND
A22	GND	A22	NC	A22	GND	A22	ZOOM+	A22	$\overline{\text{EXT SW}}$	A22	LPF1 (BA)	A22	OSD CS
B22	GND	B22	GND	B22	GND	B22	GND	B22	GND	B22	GND	B22	GND
C22	GND	C22	GND	C22	HD OUT (M)	C22	ZOOM-	C22	BOARD DET1	C22	BB-SCL1 (E)	C22	GND
A23	$\overline{\text{INDEX}}$/NOT	A23	HD IN (BA)	A23	R IN (IFB)	A23	FOCUS+	A23	EX FSEL	A23	LPF2 (BA)	A23	DAC LD
B23	IN/$\overline{\text{OUT}}$	B23	GND	B23	GND	B23	GND	B23	GND	B23	GND	B23	GND
C23	SIRCS CCQ	C23	GND	C23	VD OUT (M)	C23	FOCUS-	C23	BANK F1	C23	CK OUT (C)	C23	GND
A24	GND	A24	HD OUT (BA)	A24	GND	A24	SHIFT+	A24	EX TSEL	A24	GND	A24	TG CLK
B24	GND	B24	GND	B24	GND	B24	GND	B24	GND	B24	GND	B24	GND
C24	GND	C24	SP MUTE	C24	HD OUT (BC)	C24	SHIFT-	C24	BANK T1	C24	HD OUT (C)	C24	DAC CLK
A25	G OUT	A25	NC	A25	G IN (IFB)	A25	BB-SDA1 (E)	A25	BANK T2	A25	GND	A25	TG DATA
B25	G OUT	B25	GND	B25	GND	B25	GND	B25	GND	B25	GND	B25	GND
C25	G OUT	C25	GND	C25	HD IN (BC)	C25	BB-SCL1 (E)	C25	NC	C25	VD OUT (C)	C25	DAC DATA
A26	GND	A26	BAC-SDA	A26	GND	A26	BB-SDA2 (E)	A26	SHT ID	A26	GND	A26	C-SCL
B26	GND	B26	GND	B26	GND	B26	GND	B26	GND	B26	GND	B26	GND
C26	GND	C26	GND	C26	GND	C26	BB-SCL2 (E)	C26	SHT CLK	C26	NC	C26	GND
A27	$\overline{\text{MON SEL}}$	A27	BAC-SCL	A27	B IN (IFB)	A27	13.5V	A27	SHT MISO	A27	GND	A27	C-SDA
B27	CODE2	B27	GND	B27	GND	B27	13.5V	B27	GND	B27	GND	B27	GND
C27	SUB+5V	C27	AUDIO MUTE	C27	SHARPNESS	C27	13.5V	C27	SHT MOSI	C27	ROUT (C)	C27	GND
A28	GND	A28	5.2V (D)	A28	GND	A28	16.3V	A28	$\overline{\text{SHT RESET}}$	A28	SUB 5V	A28	16.3V
B28	GND	B28	5.2V (D)	B28	GND	B28	16.3V	B28	GND	B28	GND	B28	16.3V
C28	GND	C28	5.2V (D)	C28	GND	C28	16.3V	C28	$\overline{\text{LED CONT}}$	C28	PWR CNT (M)	C28	16.3V
A29	B OUT	A29	13.5V	A29	13.5V	A29	6.2V	A29	FILTER COVER	A29	SUB 5V	A29	6.2V
B29	B OUT	B29	13.5V	B29	13.5V	B29	6.2V	B29	GND	B29	GND	B29	6.2V
C29	B OUT	C29	13.5V	C29	13.5V	C29	6.2V	C29	LAMP TEMP PROT	C29	GOUT (C)	C29	6.2V
A30	GND	A30	6.2V	A30	6.2V	A30	5.2V	A30	LAMP COVER	A30	SUB 5V	A30	13.5V
B30	GND	B30	6.2V	B30	6.2V	B30	5.2V	B30	GND	B30	GND	B30	13.5V
C30	GND	C30	6.2V	C30	6.2V	C30	5.2V	C30	NC	C30	PWR CNT (BB)	C30	13.5V
A31	SIRCS FM Z	A31	SUB5V	A31	N.C.	A31	SUB5V	A31	FAN PROT1	A31	GND	A31	NC
B31	NOR/MIX	B31	SUB5V	B31	N.C.	B31	SUB5V	B31	GND	B31	GND	B31	NC
C31	SIRCS TO Z	C31	SUB5V	C31	SUB 5V	C31	SUB5V	C31	FAN PROT2	C31	BOUT (C)	C31	NC
A32	GND	A32	GND	A32	N.C.	A32	GND	A32	GND	A32	6.2V	A32	SUB+5V
B32	MON.OUT.CONT	B32	GND	B32	GND	B32	GND	B32	GND	B32	6.2V	B32	SUB+5V
C32	GND	C32	GND	C32	N.C.	C32	GND	C32	GND	C32	6.2V	C32	SUB+5V

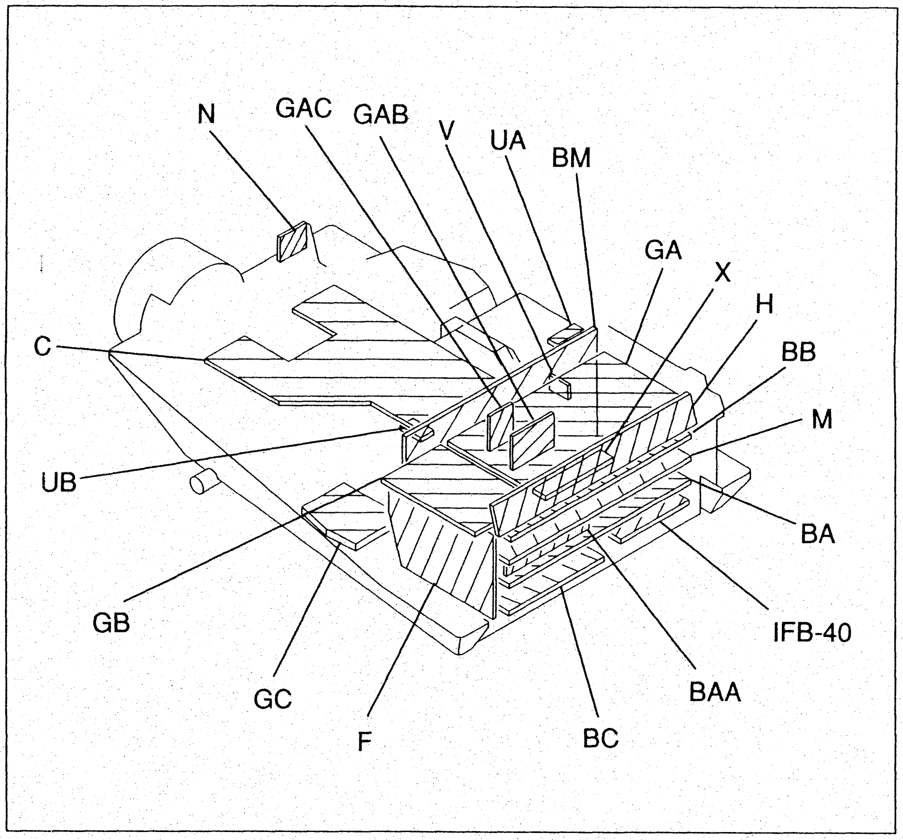

BAA (SECAM IDENT)
CN1951
12V
VIDEO
ID
GND
NC
CN1201
X (EXTENTION BOARD)
96P
CN6901
CN6902
96P
CN201
BC (AUDIO.MOTOR CONTROL AFC)
CN4001
96P
CN202
BA (INPUT SELECT.SYNC SEP Y/C.CROMA DECODE FILTER)
CN1301
96P
CN203
M
BM (MOTHER BOARD)
CN223
SUB5V
RXD
TXD
GND
EXT SW
CN208
SP OUT+
SP OUT-
SPEAKER
CN211
LAMP CONT
LAMP PROT
G TEMP PROT
GND
CN213
SUB5V
SUB5V
GND (SUB)
GND (SUB)
POWER CONT (BBG)
CN214
6.2V
6.2V
13.5V
13.5V
16.3V
GND
GND
GND
CN215
5.2V (D)
5.2V (D)
GND (D)
GND (D)
CN212
AUDIO +B
GND (AUD)
CN216
SUB5V
SIRCS N
GND
CN7005
CN7008
CN7006
CN7007
GB (SET POWER SUPPLY)
CN7003
DC IN
N.C
DC GND
CN7004
VCC 1
GND 1
VCC 2
GND 2
AF ON/OFF
CN8009
DC OUT
N.C
DC GND
CN8008
CN8010
THERMAL SW2
THERMAL SW1
GA (LAMP
DC FAN
CN8003
12V
GND
MAIN SW
NEUTRAL IN
NEUTRAL OUT
LIVE IN
LIVE OUT
CN102
CN103
F (FILTER)
AC INLET
CN104
AC (L)
AC (N)
CN8004
LAMP CONT
LAMP PORT
TEMP
GND 3
CN8001
AC (L)
AC (N)
GAB (RAMP POWER CONTROL)
CN8301
VCC 2
12V OUT
CNTL
N.C
OVP
PROT OUT
PROT RET
GND 2
CN8302
VS
N.C
N.C
CS
IGN
CN8005
VCC 2
12V IN
CNTL
N.C
OVP
PROT IN
PROT RET
GND 2
CN8006
VS
N.C
N.C
CS
IGN
GAC (SWITCHING DRIVE)
CN8402
GND 1
N.C
HG
HS
LG
LS
OCP
OVP
F/B
VCC 1


GA (LAMP POWER SUPPLY)
GAC (SWITCHING DRIVE)
GB (SET POWER SUPPLY)
N (SIRCS)
UB (SW)
UA (SW)
V (TEMP SW)
GC (IGNITER)
LAMP
H (CONTROL PANEL)
M (MICON)
BB (SCAN CONVERTER)
C (PANEL DRIVER / OSD)
BAA (SECAM IDENT)
CN8005
VCC 2
12V IN
CNTL
N.C
OVP
PROT IN
PROT RET
GND 2
CN8006
VS
N.C
N.C
CS
IGN
CN8003
12V
GND
CN8010
THERMAL SW2
THERMAL SW1
CN8402
CN8007
GND 1
N.C
HG
HS
LG
LS
OCP
OVP
F/B
VCC 1
CN8002
CN8501
IGN ST
IGN +
IGN GND
CN7006
5.2V (D)
GND (D)
CN7007
AUDIO +B
GND (AUD)
CN6501
SUB5V
SIRCS N
GND
CN6601
LAMP COVER
CN6801
LAMP TEMP PROT
LAMP CONT (G)
LAMP CONT (M)
CN215
CN212
CN216
CN219
FILTER COVER
CN221
CN222
13.5V
FAN PROT1
CN220
FAN PROT2
CN209
FAN PROT3
CN210
ZOOM+
ZOOM−
FOCUS+
FOCUS−
SHIFT+
SHIFT−
RELAY CONNECTOR
TO OPTICAL UNIT
DC FAN
CN6001
CN217
SIRCS H
SIRCS
SHT ID
SHT CLK
CN6002
CN218
SHT MISO
SHT MOSI
SHT RESET
LED CONT
CN224
+13.5V
FAN PROT 4
CN203
CN204
CN205
CN206
CN207
96P
CN1301
CN2001
CN2002
CN3001
CN5001
CN1201
SELECT.SYNC SEP
DMA DECODE
CN1951
12V
VIDEO
ID
NC
CN5601
CN5701
CN5801
24P
TO RED LCD PANEL
TO GREEN LCD PANEL
TO BLUE LCD PANEL
CN5700 24P
CN5800 24P
CN5900 24P
TEST
COM
VVDD
PCG
DWN
VST
VCK
INT
ENB
CLR
VSS
HCK2
HCK1
HST
RGT
XRGT
HVDD
SIG1
SIG2
SIG3
SIG4
SIG5
SIG6
PSIG


BAA (SECAM IDENT)
CN1951
12V
VIDEO
ID
GND
NC
CN1201
BC (AUDIO.MOTOR CONTROL AFC)
BA (INPUT SELECT.SYNC SEP Y/C.CROMA DECODE FILTER)
M (MICON)
BB (SCAN CONVERTER)
C (PANEL DRIVER OSD)
TO RED LCD PANEL
TO GREEN LCD PANEL
TO BLUE LCD PANEL
24P
CN5601
CN5701
CN5801
CN4001
CN1301
CN2001
CN2002
CN3001
CN5001
96P
CN202
CN203
CN204
CN205
CN206
CN207
BOARD)
ARD)
CN224
+13.5V
FAN PROT 4
GND
CN211
LAMP CONT
LAMP PROT
G TEMP PROT
GND
CN213
SUB5V
SUB5V
GND (SUB)
GND (SUB)
POWER CONT (BBG)
CN214
6.2V
6.2V
13.5V
13.5V
16.3V
GND
GND
GND
CN215
5.2V (D)
5.2V (D)
GND (D)
GND (D)
CN212
AUDIO +B
GND (AUD)
CN216
SUB5V
SIRCS N
GND
CN219
FILTER COVER
GND
CN221
LAMP TEMP PROT
GND
LAMP CONT (G)
LAMP CONT (M)
LAMP COVER
GND
CN222
13.5V
FAN PROT1
GND
CN220
13.5V
FAN PROT2
GND
CN209
13.5V
FAN PROT3
GND
CN210
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
SHIFT-
CN217
SIRCS H
SIRCS
SUB5V
5.2V (D)
SHT ID
SHT CLK
GND
CN218
SHT MISO
SHT MOSI
SHT RESET
LED CONT
GND
GND
CN6001
CN6002
H (CONTROL PANEL)
RELAY CONNECTOR
DC FAN
DC FAN
DC FAN
DC FAN
RELAY CONNECTOR
RELAY CONNECTOR
TO OPTICAL UNIT
TO OPTICAL UNIT
CN7005
CN7008
CN7006
CN7007
GB (SET POWER SUPPLY)
CN6501
N (SIRCS)
UB (SW)
CN6601
LAMP COVER
GND
UA (SW)
CN6801
V (TEMP SW)
CN7003
DC IN
N.C
DC GND
CN7004
VCC 1
GND 1
VCC 2
GND 2
AF ON/OFF
CN8009
DC OUT
N.C
DC GND
CN8008
CN8010
THERMAL SW2
THERMAL SW1
GA (LAMP POWER SUPPLY)
DC FAN
CN8003
12V
GND
GC (IGNITER)
LAMP
CN8002
CN8501
IGN ST
IGN +
IGN GND
GAB (RAMP POWER) CONTROL
CN8301
CN8005
VCC 2
12V OUT
12V IN
CNTL
N.C
OVP
PROT OUT
PROT IN
PROT RET
GND 2
CN8302
CN8006
VS
N.C
N.C
CS
IGN
GAC (SWITCHING DRIVE)
CN8402
CN8007
GND 1
N.C
HG
HS
LG
LS
OCP
OVP
F/B
VCC 1
CN8004
LAMP CONT
LAMP PORT
TEMP
GND 3
CN104
CN8001
AC (L)
AC (N)

	CN5700 24P		CN5800 24P		CN5900 24P
24	TEST	24	TEST	24	TEST
23	COM	23	COM	23	COM
22	VVDD	22	VVDD	22	VVDD
21	PCG	21	PCG	21	PCG
20	DWN	20	DWN	20	DWN
19	VST	19	VST	19	VST
18	VCK	18	VCK	18	VCK
17	INT	17	INT	17	INT
16	ENB	16	ENB	16	ENB
15	CLR	15	CLR	15	CLR
14	VSS	14	VSS	14	VSS
13	HCK2	13	HCK2	13	HCK2
12	HCK1	12	HCK1	12	HCK1
11	HST	11	HST	11	HST
10	RGT	10	XRGT	10	RGT
9	HVDD	9	HVDD	9	HVDD
8	SIG6	8	SIG1	8	SIG6
7	SIG5	7	SIG2	7	SIG5
6	SIG4	6	SIG3	6	SIG4
5	SIG3	5	SIG4	5	SIG3
4	SIG2	4	SIG5	4	SIG2
3	SIG1	3	SIG6	3	SIG1
2	PSIG	2	PSIG	2	PSIG
1	PSIG	1	PSIG	1	PSIG

7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ☐ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.

- Voltage value is the reference value between it and the earth, when VIDEO color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage values is V (volt).
- ∗ : Measurement disabled.
- V : B + line,B – line.
  (Actual measured value may be different).
- Circled numbers are waveform references.
- ⇨ : Signal Path.

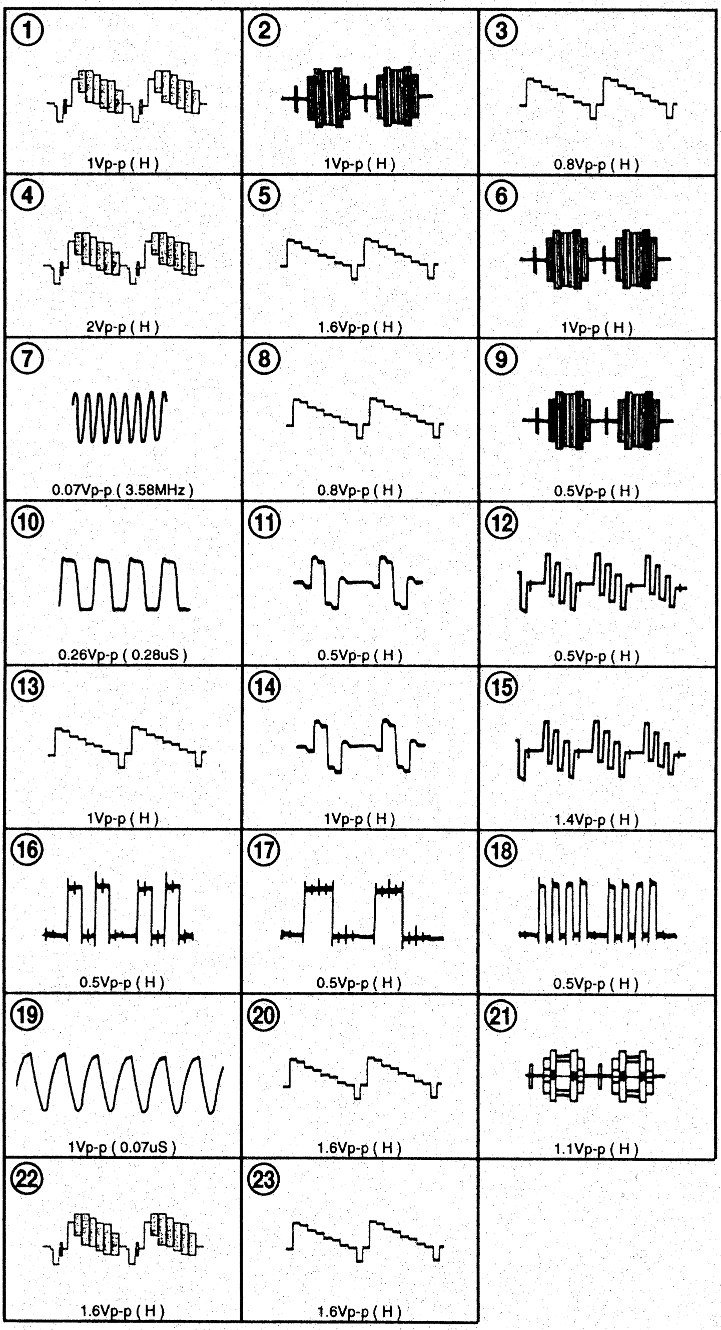
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

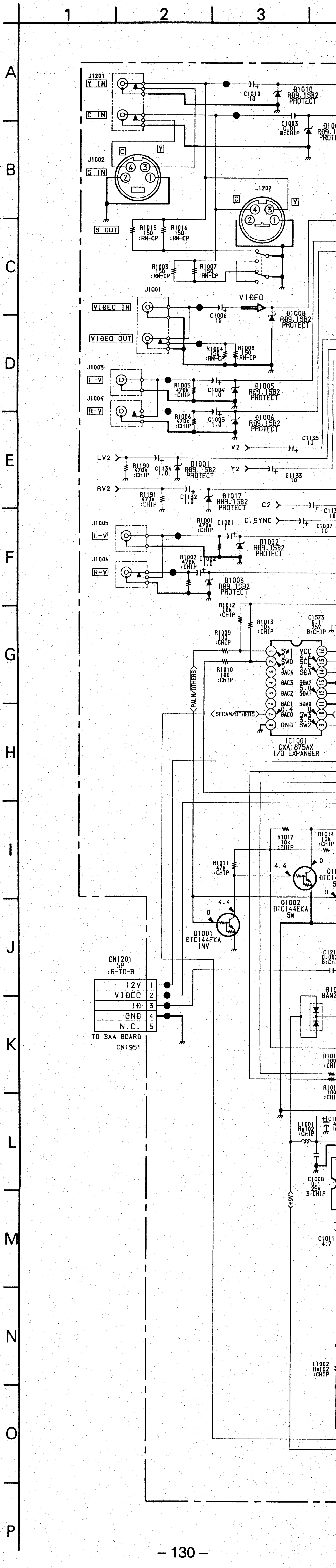
Note: Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

BA (1/3) BOARD

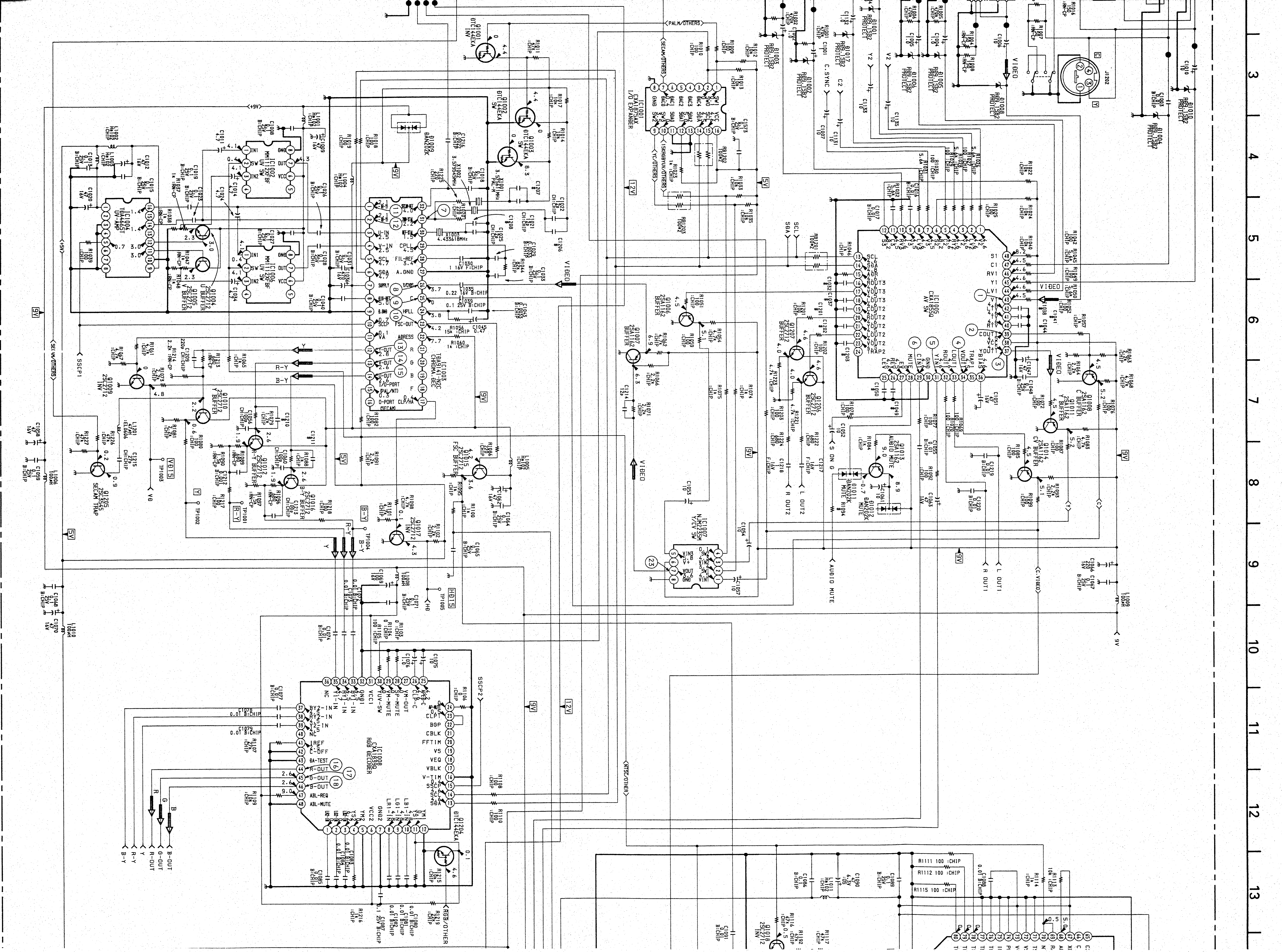


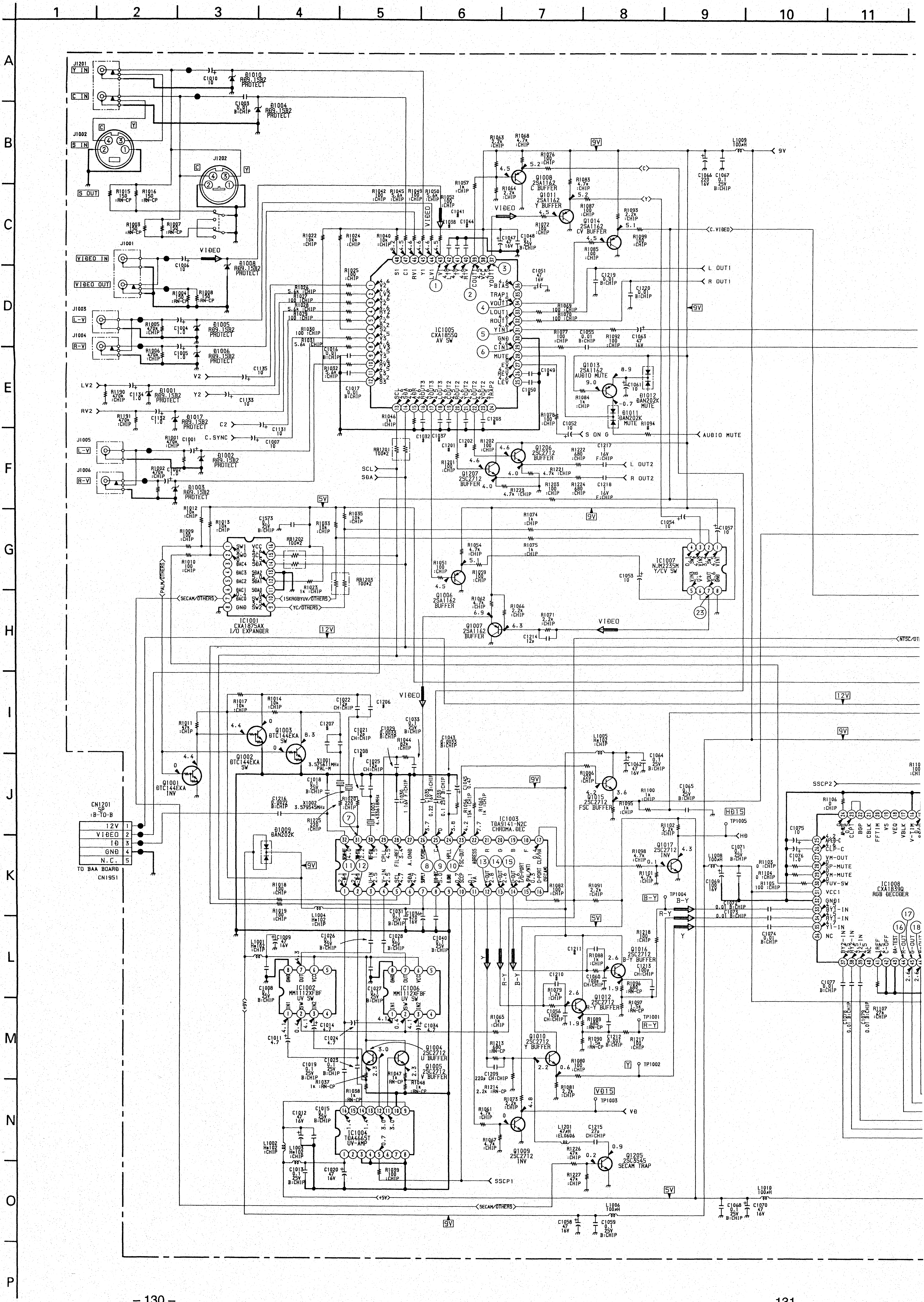
Schematic diagram

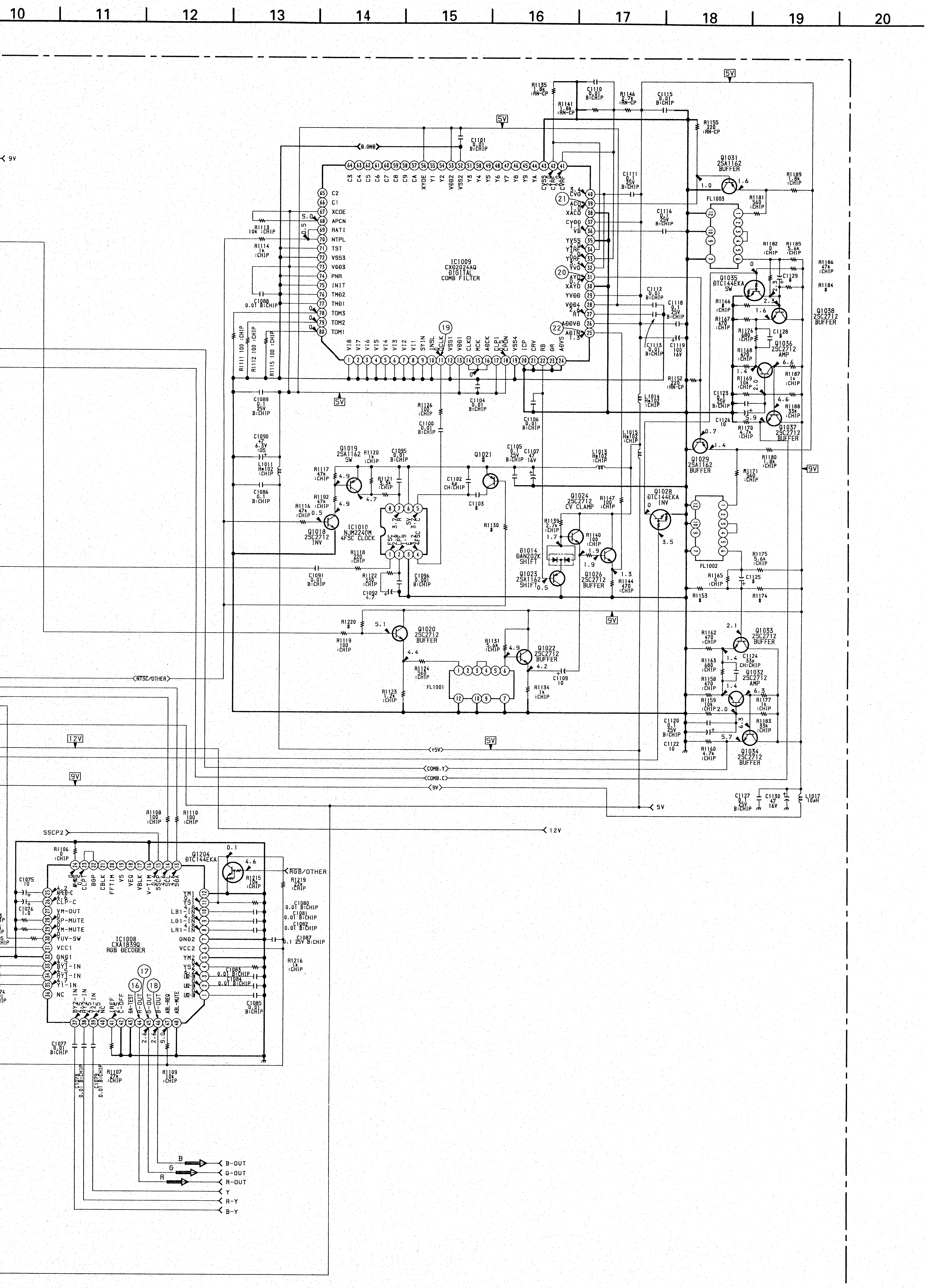
BA(1/3) board ➡



1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
J1201
Y IN
C IN
J1002
S IN
S OUT
J1202
C
Y
R1015 150 :RN-CP
R1016 150 :RN-CP
R1003
R1007
J1001
VIDEO IN
VIDEO OUT
VIDEO
C1006 10
D1008 RB9.1SB2 PROTECT
R1004
R1008 150 :RN-CP
J1003
L-V
J1004
R-V
R1005 470k :CHIP
C1004 1.0
D1005 RB9.1SB2 PROTECT
R1006 470k :CHIP
C1005 1.0
D1006 RB9.1SB2 PROTECT
C1010 10
D1010 RB9.1SB2 PROTECT
C1003 0.01 B:CHIP
V2
C1135 10
LV2
R1190 470k :CHIP
C1134 1.0
D1001 RB9.1SB2 PROTECT
Y2
C1133 10
RV2
R1191 470k :CHIP
C1132 1.0
D1017 RB9.1SB2 PROTECT
C2
R1001 470k :CHIP
C1001
C.SYNC
C1007 10
J1005
L-V
J1006
R-V
D1002 RB9.1SB2 PROTECT
R1002 470k :CHIP
C1002 1.0
D1003 RB9.1SB2 PROTECT
R1012 10k :CHIP
R1013 10k :CHIP
C1573 0.1 25V B:CHIP
R1009 100 :CHIP
R1010 100 :CHIP
<PALM/OTHERS>
<SECAM/OTHERS>
SW1
SWO
BAC4
BAC3
BAC2
BAC1
BAC0
GND
VCC
SCL
SDA
SDA2
SDA1
SDA0
SW3
SW2
IC1001 CXA1875AX I/O EXPANDER
R1017 10k :CHIP
R1014 10k :CHIP
R1011 47k :CHIP
4.4
0
Q1002 DTC144EKA SW
Q1001 DTC144EKA INV
CN1201 5P :B-TO-B
12V
VIDEO
ID
GND
N.C.
TO BAA BOARD CN1951
L1001 Hz102 :CHIP
C1008 0.1 25V B:CHIP
<9V>
C1011 4.7
L1002 Hz102 :CHIP


IC1001 CXA1875AM I/O EXPANDER
IC1002 MM1112XFBF UV SW
IC1003 TDA4650T CHROMA DEC
IC1004 TDA4661T UV-AMP
IC1005 CXA1855Q AV SW
IC1007 NJM2235M Y/C/V SW
IC1008 CXA1839Q RGB DECODER
J202
VIDEO
AUDIO MUTE
R OUT1
L OUT1
R OUT2
L OUT2
C.VIDEO
B-Y
R-Y
R-OUT
G-OUT
B-OUT
9V
3
4
5
6
7
8
9
10
11
12
13


J1201 Y IN
C IN
J1002 S IN
S OUT
J1202
J1001
VIDEO IN
VIDEO OUT
J1003 L-V
J1004 R-V
J1005 L-V
J1006 R-V
LV2
RV2
V2
Y2
C2
C.SYNC
IC1005 CXA1855Q AV SW
IC1001 CXA1875AX I/O EXPANDER
IC1007 NJM2235M Y/CV SW
IC1003 TDA9141-N2C CHROMA DEC
IC1002 MM1112XFBF UV SW
IC1006 MM1112XFBF UV SW
IC1004 TDA4665T UV-AMP
IC1008 CXA1839Q RGB DECODER
Q1001 DTC144EKA INV
Q1002 DTC144EKA SW
Q1003 DTC144EKA SW
Q1004 2SC2712 U BUFFER
Q1005 2SC2712 V BUFFER
Q1006 2SA1162 BUFFER
Q1007 2SA1162 BUFFER
Q1008 2SA1162 C BUFFER
Q1009 2SC2712 INV
Q1010 2SC2712 Y BUFFER
Q1011 2SA1162 Y BUFFER
Q1012 2SC2712 R-Y BUFFER
Q1013 2SA1162 AUDIO MUTE
Q1014 2SA1162 CV BUFFER
Q1015 2SC2712 FSC BUFFER
Q1016 2SC2712 B-Y BUFFER
Q1017 2SC2712 INV
Q1205 2SC3545 SECAM TRAP
Q1206 2SC2712 BUFFER
Q1207 2SC2712 BUFFER
X1001 3.575611MHz PAL-M
X1002 3.579545MHz
X1003 4.433618MHz
CN1201 5P :B-TO-B
12V
VIDEO
ID
GND
N.C.
TO BAA BOARD CN1951
L OUT1
R OUT1
L OUT2
R OUT2
AUDIO MUTE
S ON G
SCL
SDA
C.VIDEO
9V
5V
12V
SSCP1
SSCP2
TP1001
TP1002
TP1003
TP1004
TP1005
HD
VD
VIDEO
Y
R-Y
B-Y
PALM/OTHERS
SECAM/OTHERS
NTSC/OTHERS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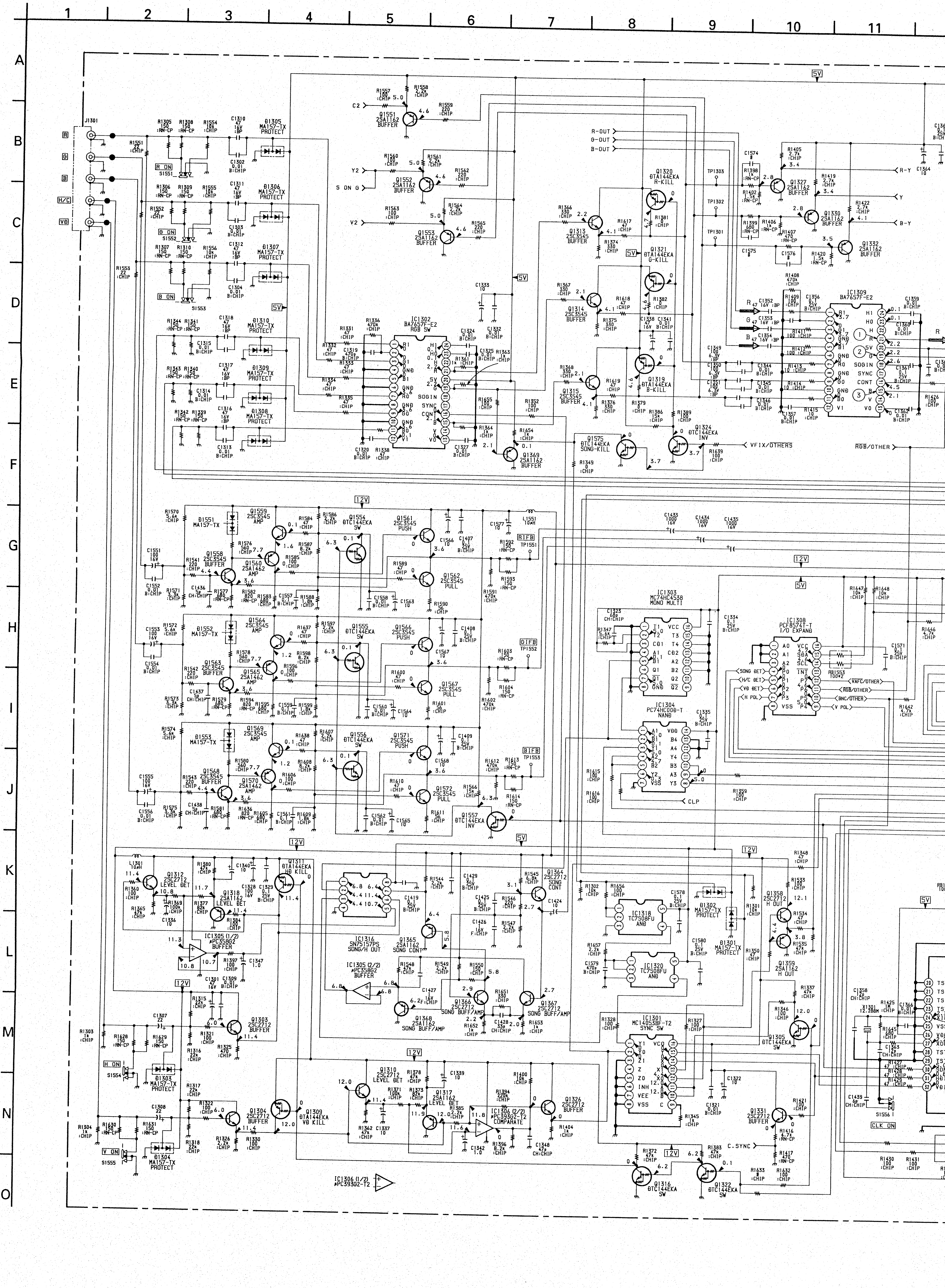
IC1009
CXD2024AQ
DIGITAL
COMB FILTER
IC1008
CXA1839Q
RGB DECODER
IC1010
NJM2240M
4FSC CLOCK
Q1018
2SC2712
INV
Q1019
2SA1162
SW
Q1020
2SC2712
BUFFER
Q1021
Q1022
2SC2712
BUFFER
Q1023
2SA1162
SHIFT
Q1024
2SC2712
CV CLAMP
Q1026
2SC2712
BUFFER
Q1028
DTC144EKA
INV
Q1029
2SA1162
BUFFER
Q1031
2SA1162
BUFFER
Q1032
2SC2712
AMP
Q1033
2SC2712
BUFFER
Q1034
2SC2712
BUFFER
Q1035
DTC144EKA
SW
Q1036
2SC2712
AMP
Q1037
2SC2712
BUFFER
Q1038
2SC2712
BUFFER
Q1204
DTC144EKA
D1014
DAN202K
SHIFT
FL1001
FL1002
FL1003
L1011
L1013
L1014
L1015
L1017
10μH
5V
9V
12V
B.GND
NTSC/OTHER
+5V
COMB.Y
COMB.C
RGB/OTHER
SSCP2
B-OUT
G-OUT
R-OUT
Y
R-Y
B-Y
B
G
R

BA (1/3)

(INPUT SELECT, Y/C, CHROMA DECODE, COMB FILTER)

B-SS1628<U/C>-BA.-P1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D
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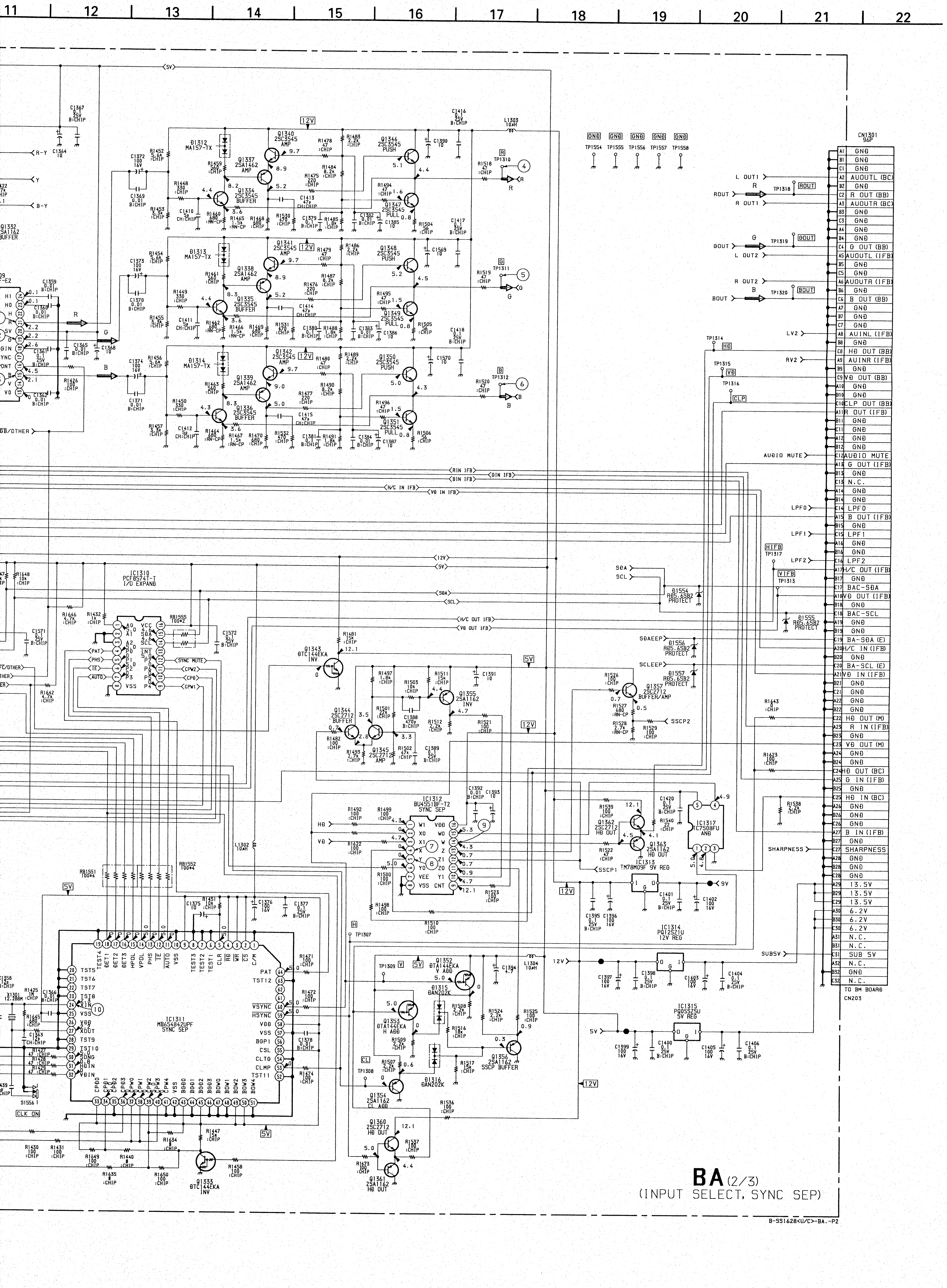
H
I
J
K
L
M
N
O
J1301
R
G
B
H/C
VD
R ON
G ON
B ON
S1551
S1552
S1553
D1305 MA157-TX PROTECT
D1306 MA157-TX PROTECT
D1307 MA157-TX PROTECT
D1308 MA157-TX PROTECT
D1309 MA157-TX PROTECT
D1310 MA157-TX PROTECT
5V
12V
C2
Y2
S ON G
V2
Q1551 2SA1162 BUFFER
Q1552 2SA1162 BUFFER
Q1553 2SA1162 BUFFER
IC1302 BA7657F-E2 RGB SW
R-OUT
G-OUT
B-OUT
Q1313 2SC3545 BUFFER
Q1314 2SC3545 BUFFER
Q1315 2SC3545 BUFFER
Q1320 DTA144EKA R-KILL
Q1321 DTA144EKA G-KILL
Q1319 DTA144EKA B-KILL
Q1369 2SA1162 BUFFER
Q1575 DTC144EKA SONG-KILL
Q1324 DTC144EKA INV
VFIX/OTHERS
TP1301
TP1302
TP1303
Q1327 2SA1162 BUFFER
Q1330 2SA1162 BUFFER
Q1332 2SA1162 BUFFER
R-Y
Y
B-Y
IC1309 BA7657F-E2
RGB/OTHER
D1551 MA157-TX
D1552 MA157-TX
D1553 MA157-TX
Q1559 2SC3545 AMP
Q1558 2SC3545 BUFFER
Q1560 2SA1462 AMP
Q1554 DTC144EKA SW
Q1561 2SC3545 PUSH
Q1562 2SC3545 PULL
Q1564 2SC3545 AMP
Q1563 2SC3545 BUFFER
Q1565 2SA1462 AMP
Q1555 DTC144EKA SW
Q1566 2SC3545 PUSH
Q1567 2SC3545 PULL
Q1569 2SC3545 AMP
Q1568 2SC3545 BUFFER
Q1570 2SA1462 AMP
Q1556 DTC144EKA SW
Q1571 2SC3545 PUSH
Q1572 2SC3545 PULL
Q1557 DTC144EKA INV
L1551 10μH
R1FB TP1551
G1FB TP1552
B1FB TP1553
IC1303 MC74HC4538 MONO MULTI
IC1304 PC74HC00D-T NAND
CLP
IC1308 PCF8574T-T I/O EXPAND
SONG BET
H/C BET
VD BET
H POL
VAFC/OTHER
RGB/OTHER
BNC/OTHER
V POL
Q1312 2SC2712 LEVEL BET
Q1318 2SA1162 LEVEL BET
Q1311 DTA144EKA HD KILL
IC1305 (1/2) μPC358G2 BUFFER
IC1316 SN75157PS SONG/H OUT
Q1365 2SA1162 SONG CONT
IC1305 (2/2) μPC358G2 BUFFER
Q1368 2SA1162 SONG BUFF/AMP
Q1366 2SC2712 SONG BUFF/AMP
Q1367 2SC2712 SONG BUFF/AMP
Q1364 2SC2712 SONG CONT
IC1318 TC7S08FU AND
IC1320 TC7S08FU AND
D1302 MA157-TX PROTECT
D1301 MA157-TX PROTECT
Q1358 2SC2712 H OUT
Q1359 2SA1162 H OUT
IC1301 MC14053BF-T2 SYNC SW
Q1305 DTC144EKA SW
Q1303 2SC2712 BUFFER
Q1304 2SC2712 BUFFER
Q1309 DTA144EKA VD KILL
H ON
V ON
S1554
S1555
D1303 MA157-TX PROTECT
D1304 MA157-TX PROTECT
Q1310 2SC2712 LEVEL BET
Q1317 2SA1162 LEVEL BET
IC1306 (2/2) μPC393G2-T2 COMPARATE
Q1326 2SC2712 BUFFER
IC1306 (1/2) μPC393G2-T2
Q1316 DTC144EKA SW
Q1322 DTC144EKA SW
Q1331 2SC2712 BUFFER
C.SYNC
X1301 12.288M
CLK ON
S1556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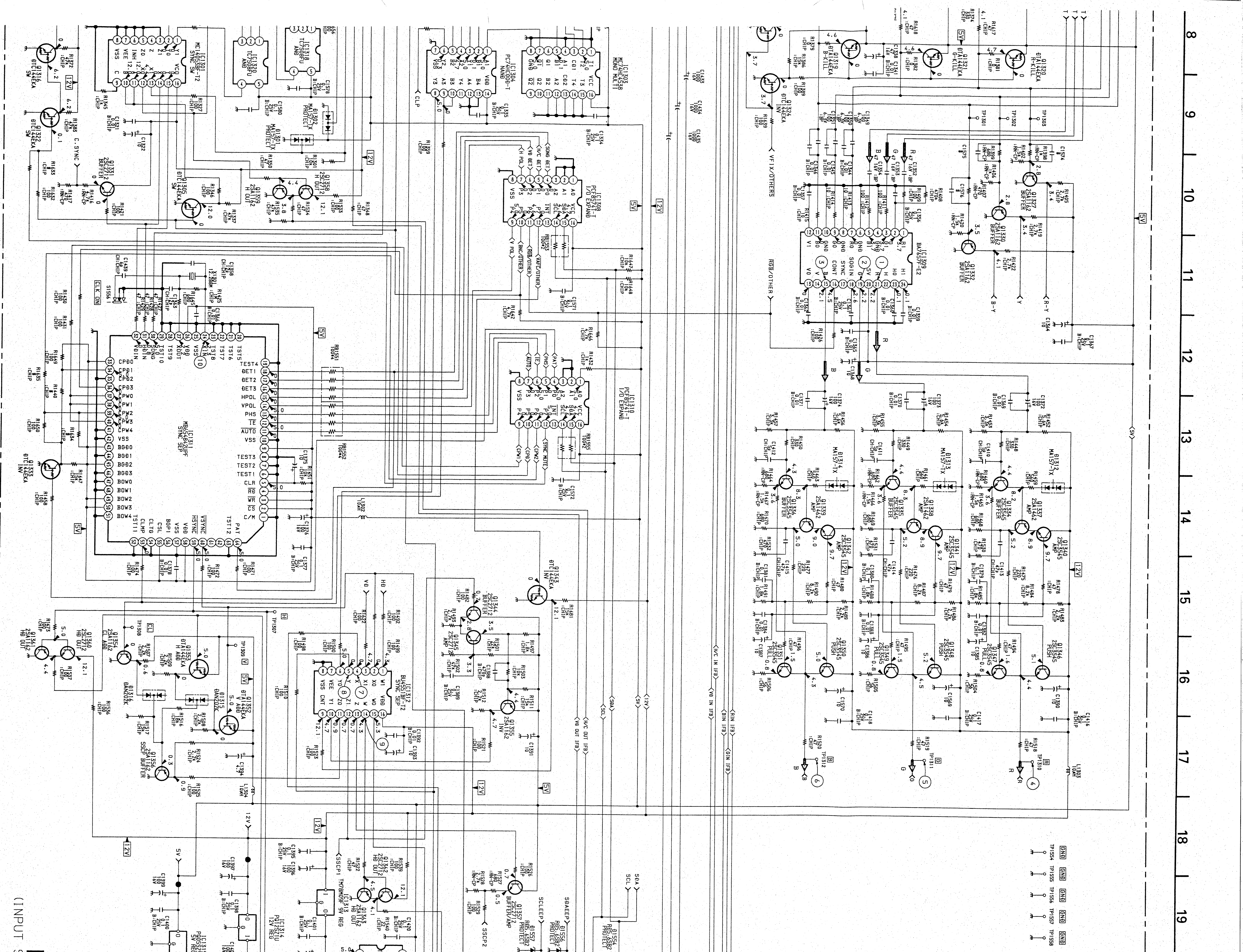
19
20
21
22
IC1310
PCF8574T-T
I/O EXPAND
IC1311
MB654842UPF
SYNC SEP
IC1312
BU4551BF-T2
SYNC SEP
IC1313
TM78M09F 9V REG
IC1314
PQ12SZ1U
12V REG
IC1315
PQ05SZ5U
5V REG
IC1317
TC7S08FU
AND
Q1332
2SA1162
BUFFER
Q1333
DTC144EKA
INV
Q1334
2SC3545
BUFFER
Q1335
2SC3545
BUFFER
Q1336
2SC3545
BUFFER
Q1337
2SA1462
AMP
Q1338
2SA1462
AMP
Q1339
2SA1462
AMP
Q1340
2SC3545
AMP
Q1341
2SC3545
AMP
Q1342
2SC3545
AMP
Q1343
DTC144EKA
INV
Q1344
2SC2712
BUFFER
Q1345
2SC2712
AMP
Q1346
2SC3545
PUSH
Q1347
2SC3545
PULL
Q1348
2SC3545
PUSH
Q1349
2SC3545
PULL
Q1350
2SC3545
PUSH
Q1351
2SC3545
PULL
Q1352
DTA144EKA
V ADD
Q1353
DTA144EKA
H ADD
Q1354
2SA1162
CL ADD
Q1355
2SA1162
INV
Q1356
2SA1162
SSCP BUFFER
Q1357
2SC2712
BUFFER/AMP
Q1360
2SC2712
HD OUT
Q1361
2SA1162
HD OUT
Q1362
2SC2712
HD OUT
Q1363
2SA1162
HD OUT
D1312
MA157-TX
D1313
MA157-TX
D1314
MA157-TX
D1315
DAN202K
D1316
DAN202K
D1554
RD5.6SB2
PROTECT
D1555
RD5.6SB2
PROTECT
D1556
RD5.6SB2
PROTECT
D1557
RD5.6SB2
PROTECT
X1301
12.288M
L1302
10uH
L1303
10uH
L1304
10uH
RB1551
100*4
RB1552
100*4
RB1555
100*2
TP1554 TP1555 TP1556 TP1557 TP1558
GND
TP1310 R
TP1311 G
TP1312 B
TP1318 ROUT
TP1319 GOUT
TP1320 BOUT
TP1314 HD
TP1315 VD
TP1316 CLP
TP1317 HIFB
TP1313 VIFB
TP1307 H
TP1308 CL
TP1309 V
CLK ON
S1556
5V
12V
R-Y
Y
B-Y
R
G
B
GB/OTHER
RIN IFB
BIN IFB
GIN IFB
H/C IN IFB
VD IN IFB
H/C OUT IFB
VD OUT IFB
SDA
SCL
SDAEEP
SCLEEP
SSCP1
SSCP2
SYNC MUTE
CPW2
CPD
CPW1
PAT
PHS
TE
AUTO
HD
VD
L OUT1
ROUT
R OUT1
GOUT
L OUT2
R OUT2
BOUT
LV2
RV2
AUDIO MUTE
LPF0
LPF1
LPF2
SHARPNESS
SUBSV
CN1301
96P
A1 GND
B1 GND
C1 GND
A2 AUOUTL (BC)
B2 GND
C2 R OUT (BB)
A3 AUOUTR (BC)
B3 GND
C3 GND
A4 GND
B4 GND
C4 G OUT (BB)
A5 AUOUTL (IFB)
B5 GND
C5 GND
A6 AUOUTR (IFB)
B6 GND
C6 B OUT (BB)
A7 GND
B7 GND
C7 GND
A8 AUINL (IFB)
B8 GND
C8 HD OUT (BB)
A9 AUINR (IFB)
B9 GND
C9 VD OUT (BB)
A10 GND
B10 GND
C10 CLP OUT (BB)
A11 R OUT (IFB)
B11 GND
C11 GND
A12 GND
B12 GND
C12 AUDIO MUTE
A13 G OUT (IFB)
B13 GND
C13 N.C.
A14 GND
B14 GND
C14 LPF0
A15 B OUT (IFB)
B15 GND
C15 LPF1
A16 GND
B16 GND
C16 LPF2
A17 H/C OUT (IFB)
B17 GND
C17 BAC-SDA
A18 VD OUT (IFB)
B18 GND
C18 BAC-SCL
A19 GND
B19 GND
C19 BA-SDA (E)
A20 H/C IN (IFB)
B20 GND
C20 BA-SCL (E)
A21 VD IN (IFB)
B21 GND
C21 GND
A22 GND
B22 GND
C22 HD OUT (M)
A23 R IN (IFB)
B23 GND
C23 VD OUT (M)
A24 GND
B24 GND
C24 HD OUT (BC)
A25 G IN (IFB)
B25 GND
C25 HD IN (BC)
A26 GND
B26 GND
C26 GND
A27 B IN (IFB)
B27 GND
C27 SHARPNESS
A28 GND
B28 GND
C28 GND
A29 13.5V
B29 13.5V
C29 13.5V
A30 6.2V
B30 6.2V
C30 6.2V
A31 N.C.
B31 N.C.
C31 SUB 5V
A32 N.C.
B32 GND
C32 N.C.
TO BM BOARD
CN203

BA (2/3)
(INPUT SELECT, SYNC SEP)

B-SS1628<U/C>-BA.-P2


IC1301 MC14053BF-T2 SYNC SW
IC1318 TC7S08FU AND
IC1320 TC7S08FU AND
IC1304 PC74HC00D-T NAND
IC1302 MC74HC4538 MONO MULTI
IC1308 PCF8574T-T I/O EXPAND
IC1310 PCF8574T-T I/O EXPAND
IC1311 MB65481ZUPF SYNC SEP
IC1312 BU4551BF-T2 SYNC SEP
IC1309 BA7657F-E2
Q1319 DTA144EKA B-KILL
Q1321 DTA144EKA G-KILL
Q1320 DTA144EKA R-KILL
Q1331 2SC2712 BUFFER
Q1359 2SA1162 H OUT
Q1358 2SC2712 H OUT
Q1356 SSCP BUFFER
Q1344 2SC2712 BUFFER
Q1343 DTC144EKA INV
Q1355 2SA1162 INV
Q1357 2SC2712 BUFFER/AMP
RGB/OTHERS
VFIX/OTHERS
C.SYNC
CLK ON
5V
12V
R
G
B
GND
TP1554
TP1555
TP1556
TP1557
TP1558
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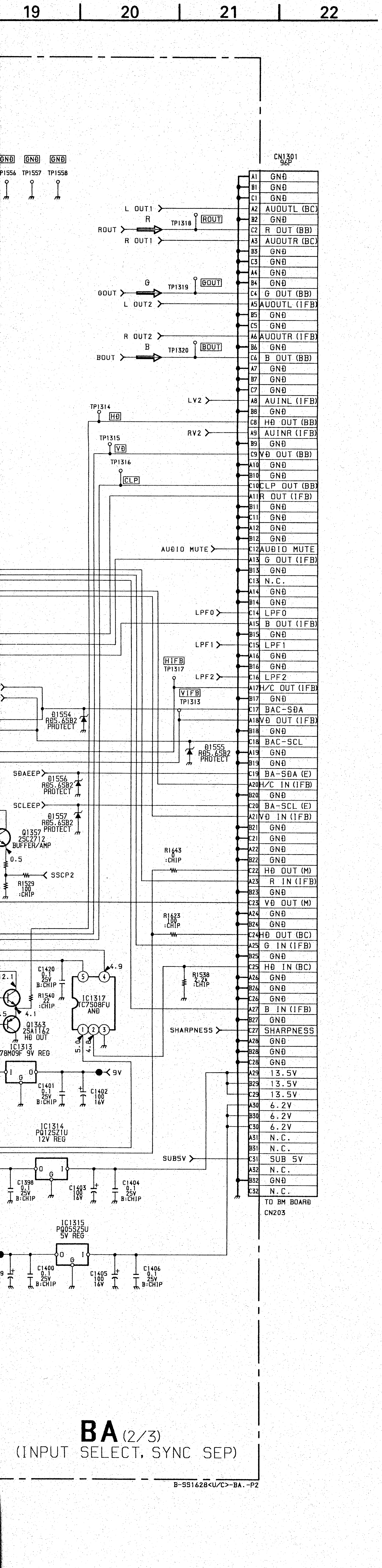
(INPUT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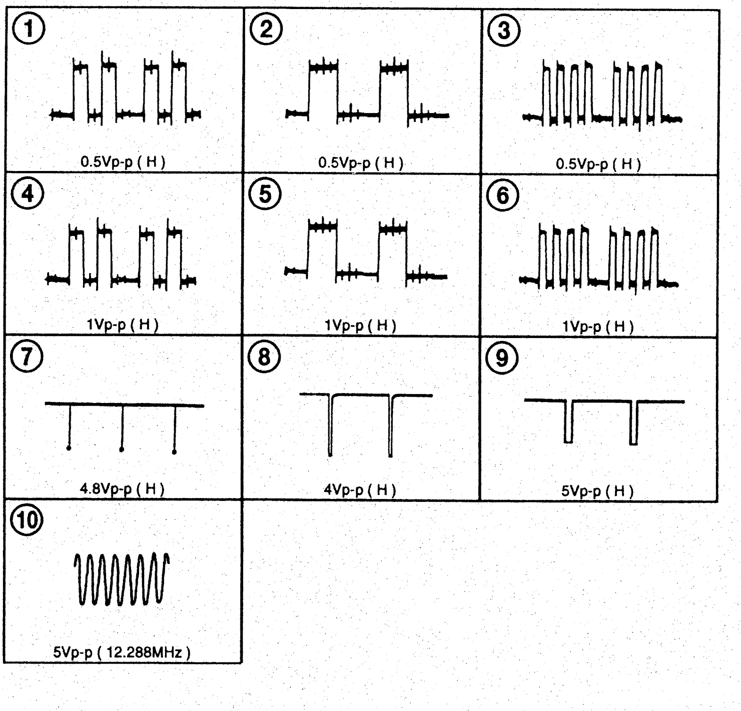
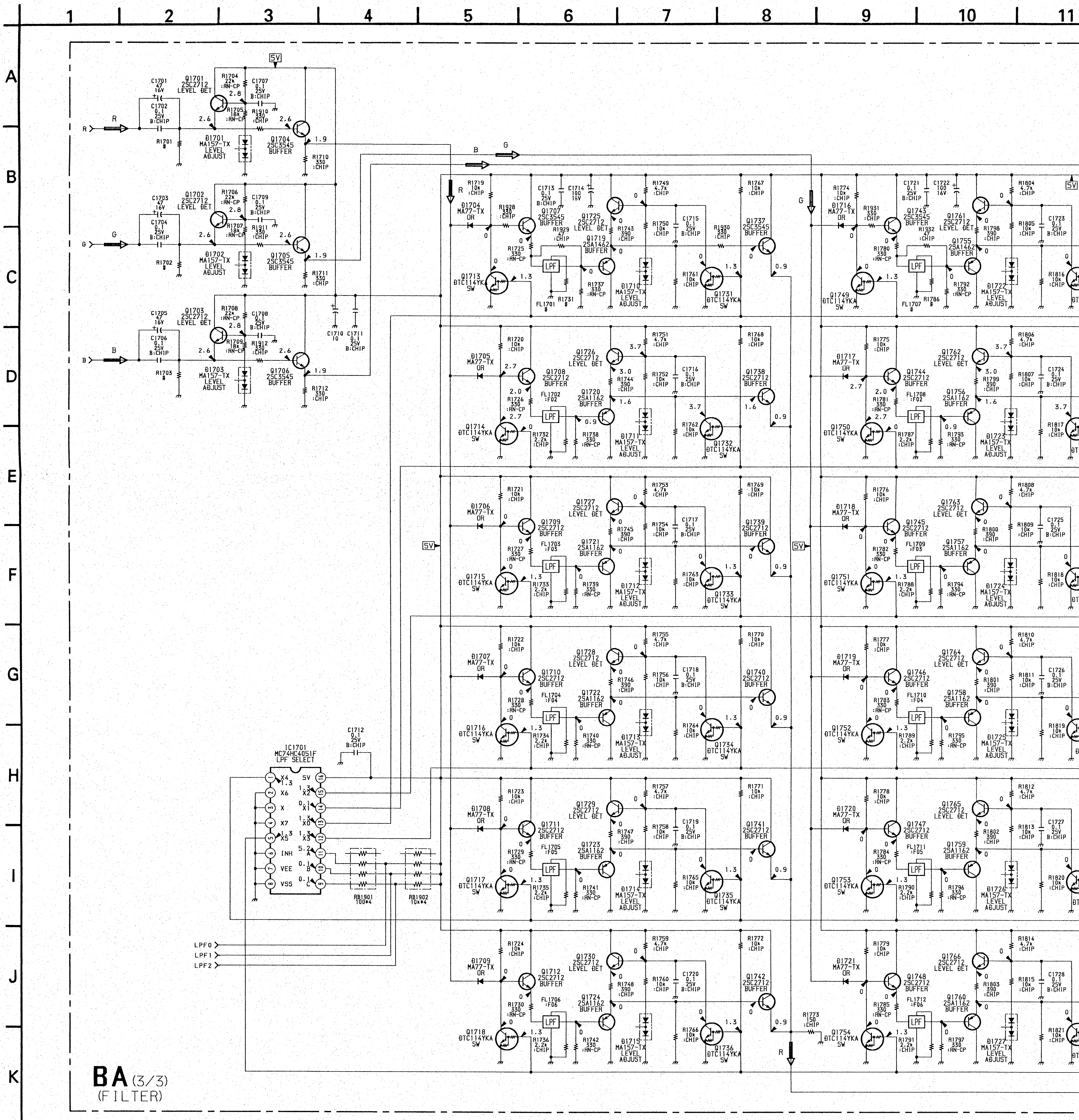
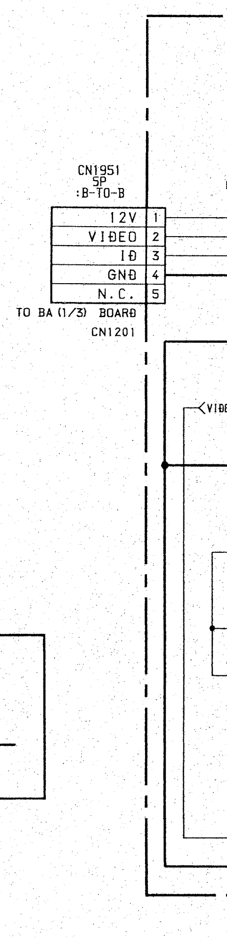
20
21
22
GND
GND
GND
TP1556
TP1557
TP1558
CN1301
96P
A1 GND
B1 GND
C1 GND
A2 AUOUTL (BC)
B2 GND
C2 R OUT (BB)
A3 AUOUTR (BC)
B3 GND
C3 GND
A4 GND
B4 GND
C4 G OUT (BB)
A5 AUOUTL (IFB)
B5 GND
C5 GND
A6 AUOUTR (IFB)
B6 GND
C6 B OUT (BB)
A7 GND
B7 GND
C7 GND
A8 AUINL (IFB)
B8 GND
C8 HD OUT (BB)
A9 AUINR (IFB)
B9 GND
C9 VD OUT (BB)
A10 GND
B10 GND
C10 CLP OUT (BB)
A11 R OUT (IFB)
B11 GND
C11 GND
A12 GND
B12 GND
C12 AUDIO MUTE
A13 G OUT (IFB)
B13 GND
C13 N.C.
A14 GND
B14 GND
C14 LPF0
A15 B OUT (IFB)
B15 GND
C15 LPF1
A16 GND
B16 GND
C16 LPF2
A17 H/C OUT (IFB)
B17 GND
C17 BAC-SDA
A18 VD OUT (IFB)
B18 GND
C18 BAC-SCL
A19 GND
B19 GND
C19 BA-SDA (E)
A20 H/C IN (IFB)
B20 GND
C20 BA-SCL (E)
A21 VD IN (IFB)
B21 GND
C21 GND
A22 GND
B22 GND
C22 HD OUT (M)
A23 R IN (IFB)
B23 GND
C23 VD OUT (M)
A24 GND
B24 GND
C24 HD OUT (BC)
A25 G IN (IFB)
B25 GND
C25 HD IN (BC)
A26 GND
B26 GND
C26 GND
A27 B IN (IFB)
B27 GND
C27 SHARPNESS
A28 GND
B28 GND
C28 GND
A29 13.5V
B29 13.5V
C29 13.5V
A30 6.2V
B30 6.2V
C30 6.2V
A31 N.C.
B31 N.C.
C31 SUB 5V
A32 N.C.
B32 GND
C32 N.C.
TO BM BOARD
CN203
L OUT1
R
ROUT
R OUT1
TP1318
ROUT
G
GOUT
L OUT2
TP1319
GOUT
R OUT2
B
BOUT
TP1320
BOUT
LV2
TP1314
HD
RV2
TP1315
VD
TP1316
CLP
AUDIO MUTE
LPF0
LPF1
HIFB
TP1317
LPF2
VIFB
TP1313
D1554
RD5.6SB2
PROTECT
D1555
RD5.6SB2
PROTECT
SDAEEP
D1556
RD5.6SB2
PROTECT
SCLEEP
D1557
RD5.6SB2
PROTECT
Q1357
2SC2712
BUFFER/AMP
0.5
SSCP2
R1529
100
:CHIP
R1643
0
:CHIP
R1623
100
:CHIP
C1420
0.1
25V
B:CHIP
4.9
2.1
R1540
22
:CHIP
IC1317
TC7S08FU
AND
R1538
4.7k
:CHIP
4.1
Q1363
2SA1162
HD OUT
IC1313
78M09F 9V REG
SHARPNESS
5.0
4.8
9V
C1401
0.1
25V
B:CHIP
C1402
100
16V
IC1314
PQ12SZ1U
12V REG
SUB5V
C1398
0.1
25V
B:CHIP
C1403
100
16V
C1404
0.1
25V
B:CHIP
IC1315
PQ05SZ5U
5V REG
C1400
0.1
25V
B:CHIP
C1405
100
16V
C1406
0.1
25V
B:CHIP
BA (2/3)
(INPUT SELECT, SYNC SEP)
B-SS1628<U/C>-BA.-P2

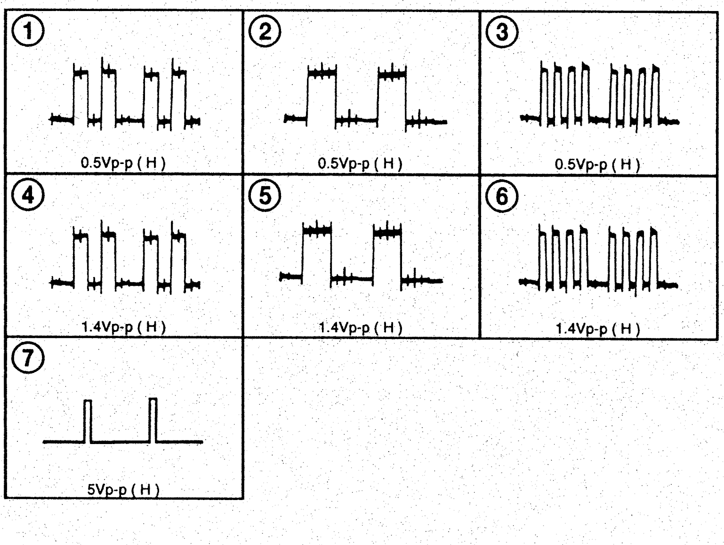
BA (2/3) BOARD


①
0.5Vp-p (H)
②
0.5Vp-p (H)
③
0.5Vp-p (H)
④
1Vp-p (H)
⑤
1Vp-p (H)
⑥
1Vp-p (H)
⑦
4.8Vp-p (H)
⑧
4Vp-p (H)
⑨
5Vp-p (H)
⑩
5Vp-p (12.288MHz)

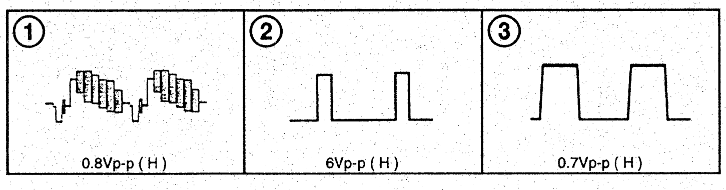

BA (3/3)
(FILTER)
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
5V
R
G
B
C1701 47 16V
Q1701 2SC2712 LEVEL DET
R1704 22k :RN-CP
C1707 0.1 25V B:CHIP
C1702 0.1 25V B:CHIP
R1701
D1701 MA157-TX LEVEL ADJUST
Q1704 2SC3545 BUFFER
R1710 330 :CHIP
Q1702 2SC2712 LEVEL DET
Q1705 2SC3545 BUFFER
R1711 330 :CHIP
D1702 MA157-TX LEVEL ADJUST
Q1703 2SC2712 LEVEL DET
Q1706 2SC3545 BUFFER
R1712 330 :CHIP
D1703 MA157-TX LEVEL ADJUST
C1710 10
C1711 0.1 25V B:CHIP
IC1701 MC74HC4051F LPF SELECT
C1712 0.1 25V B:CHIP
RB1901 100k×4
RB1902 10k×4
LPF0
LPF1
LPF2
D1704 MA77-TX OR
Q1713 DTC114YKA SW
Q1707 2SC3545 BUFFER
Q1725 2SC2712 LEVEL DET
Q1719 2SA1462 BUFFER
D1710 MA157-TX LEVEL ADJUST
Q1731 DTC114YKA SW
Q1737 2SC3545 BUFFER
FL1701
LPF
D1705 MA77-TX OR
Q1714 DTC114YKA SW
Q1708 2SC2712 BUFFER
Q1726 2SC2712 LEVEL DET
Q1720 2SA1162 BUFFER
D1711 MA157-TX LEVEL ADJUST
Q1732 DTC114YKA SW
Q1738 2SC2712 BUFFER
FL1702 :F02
D1706 MA77-TX OR
Q1715 DTC114YKA SW
Q1709 2SC2712 BUFFER
Q1727 2SC2712 LEVEL DET
Q1721 2SA1162 BUFFER
D1712 MA157-TX LEVEL ADJUST
Q1733 DTC114YKA SW
Q1739 2SC2712 BUFFER
FL1703 :F03
D1707 MA77-TX OR
Q1716 DTC114YKA SW
Q1710 2SC2712 BUFFER
Q1728 2SC2712 LEVEL DET
Q1722 2SA1162 BUFFER
D1713 MA157-TX LEVEL ADJUST
Q1734 DTC114YKA SW
Q1740 2SC2712 BUFFER
FL1704 :F04
D1708 MA77-TX OR
Q1717 DTC114YKA SW
Q1711 2SC2712 BUFFER
Q1729 2SC2712 LEVEL DET
Q1723 2SA1162 BUFFER
D1714 MA157-TX LEVEL ADJUST
Q1735 DTC114YKA SW
Q1741 2SC2712 BUFFER
FL1705 :F05
D1709 MA77-TX OR
Q1718 DTC114YKA SW
Q1712 2SC2712 BUFFER
Q1730 2SC2712 LEVEL DET
Q1724 2SA1162 BUFFER
D1715 MA157-TX LEVEL ADJUST
Q1736 DTC114YKA SW
Q1742 2SC2712 BUFFER
FL1706 :F06
R1773 150 :CHIP
D1716 MA77-TX OR
Q1749 DTC114YKA SW
Q1743 2SC3545 BUFFER
Q1761 2SC2712 LEVEL DET
Q1755 2SA1462 BUFFER
D1722 MA157-TX LEVEL ADJUST
FL1707
D1717 MA77-TX OR
Q1750 DTC114YKA SW
Q1744 2SC2712 BUFFER
Q1762 2SC2712 LEVEL DET
Q1756 2SA1162 BUFFER
D1723 MA157-TX LEVEL ADJUST
FL1708 :F02
D1718 MA77-TX OR
Q1751 DTC114YKA SW
Q1745 2SC2712 BUFFER
Q1763 2SC2712 LEVEL DET
Q1757 2SA1162 BUFFER
D1724 MA157-TX LEVEL ADJUST
FL1709 :F03
D1719 MA77-TX OR
Q1752 DTC114YKA SW
Q1746 2SC2712 BUFFER
Q1764 2SC2712 LEVEL DET
Q1758 2SA1162 BUFFER
D1725 MA157-TX LEVEL ADJUST
FL1710 :F04
D1720 MA77-TX OR
Q1753 DTC114YKA SW
Q1747 2SC2712 BUFFER
Q1765 2SC2712 LEVEL DET
Q1759 2SA1162 BUFFER
D1726 MA157-TX LEVEL ADJUST
FL1711 :F05
D1721 MA77-TX OR
Q1754 DTC114YKA SW
Q1748 2SC2712 BUFFER
Q1766 2SC2712 LEVEL DET
Q1760 2SA1162 BUFFER
D1727 MA157-TX LEVEL ADJUST
FL1712 :F06

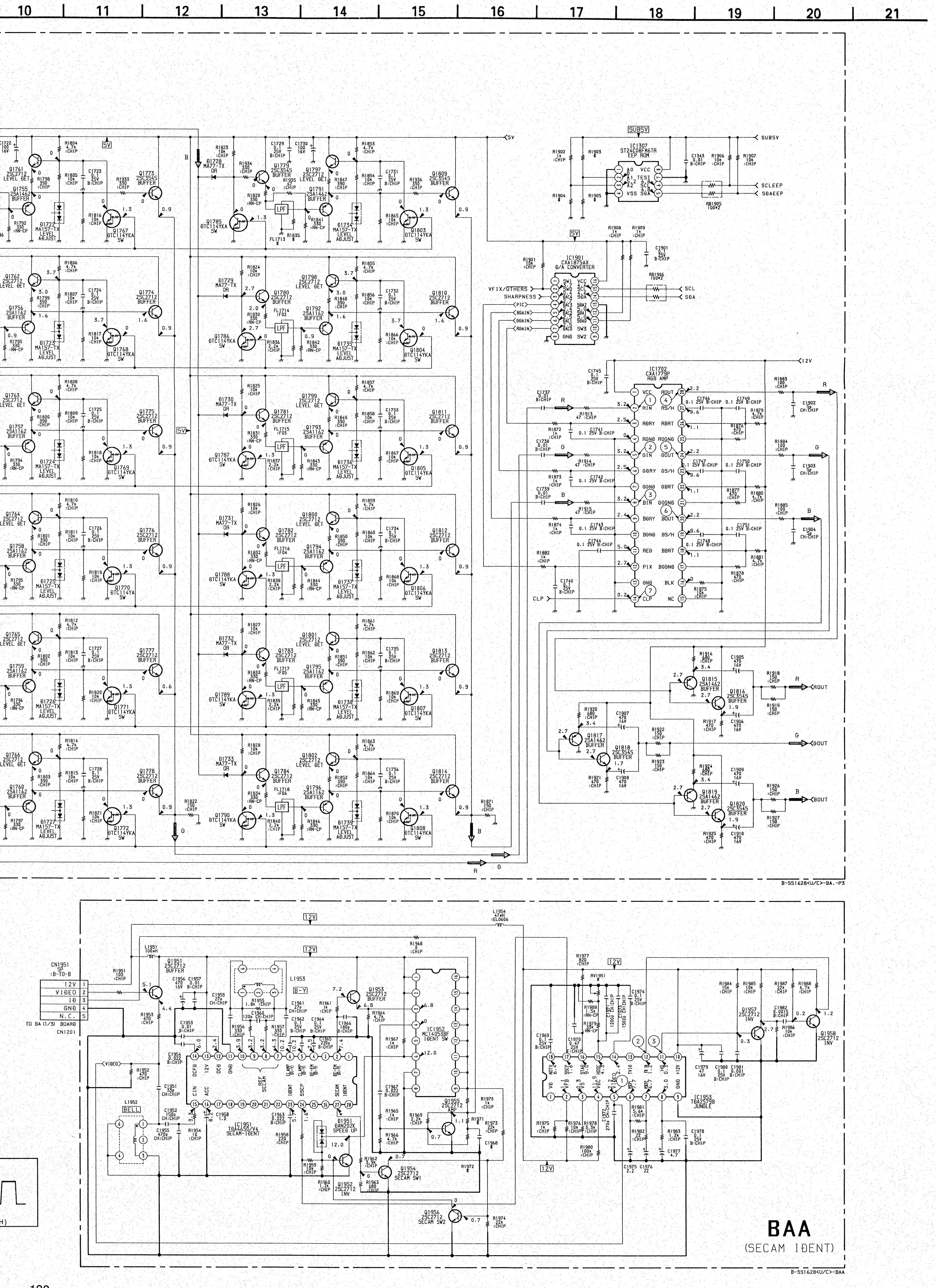

CN1951 5P :B-TO-B
12V 1
VIDEO 2
ID 3
GND 4
N.C. 5
TO BA (1/3) BOARD CN1201
VIDEO

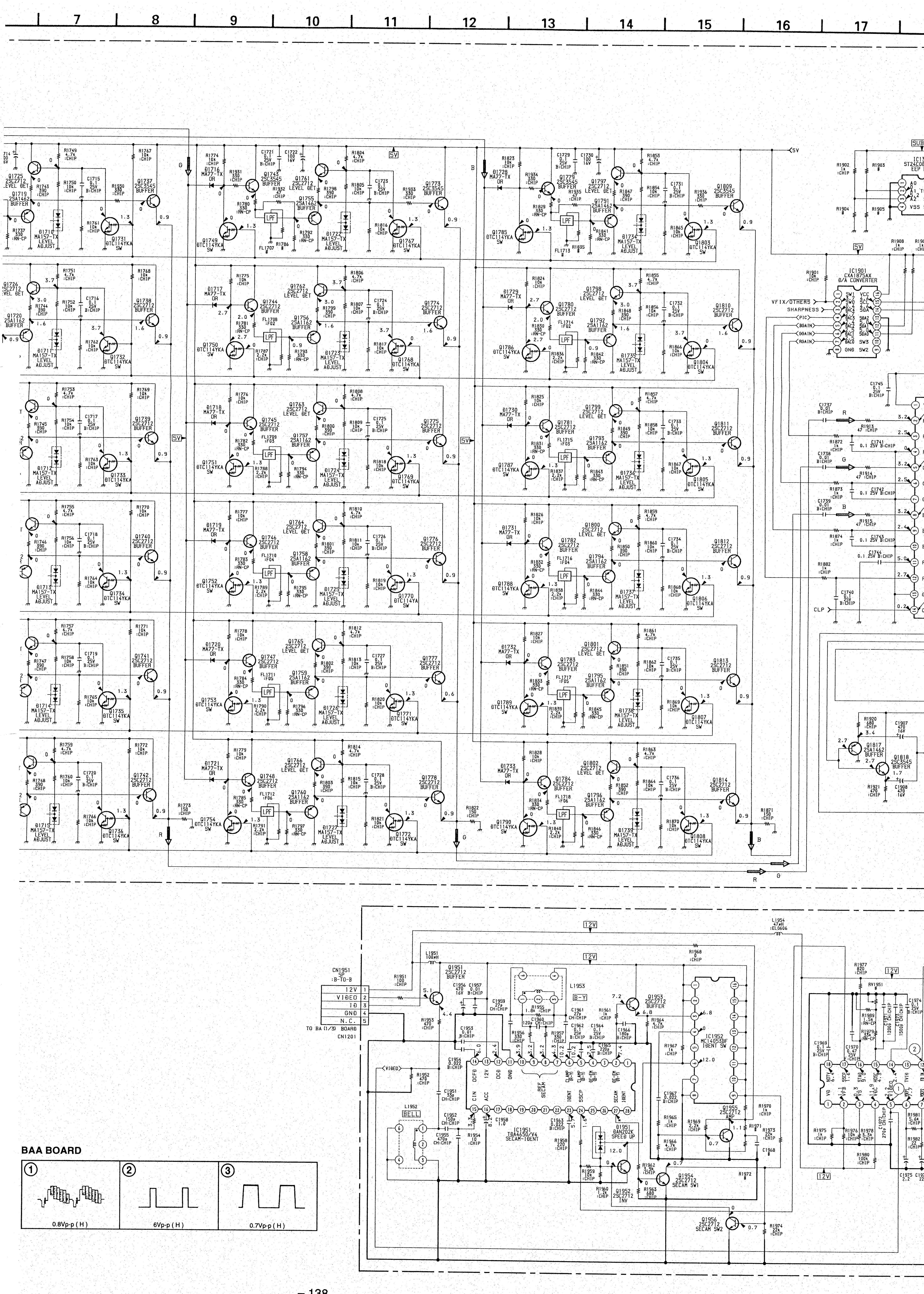
BA (3/3) BOARD

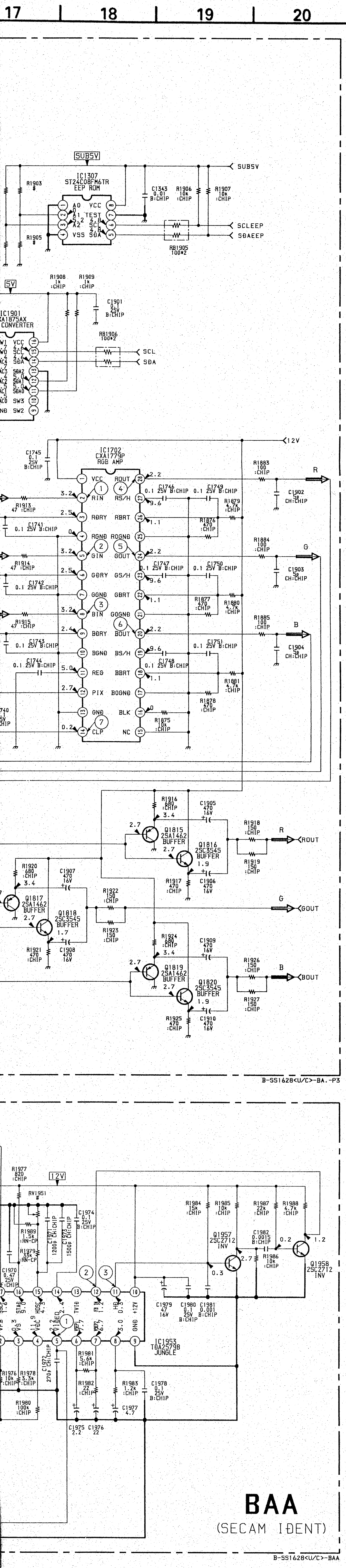


BAA BOARD



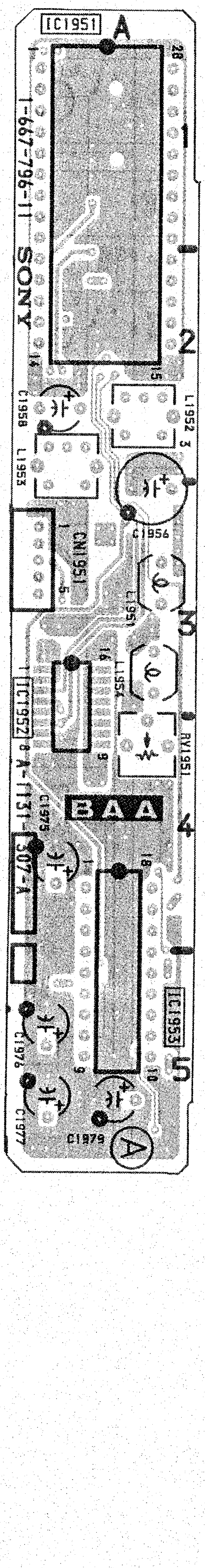

10
11
12
13
14
15
16
17
18
19
20
21
BAA
(SECAM IDENT)
B-SS1628<U/C>-BA.-P3
B-SS1628<U/C>-BAA
IC1307
ST24C08FM6TR
EEP ROM
SUB5V
SCLEEP
SDAEEP
IC1901
CXA1875AX
D/A CONVERTER
VFIX/OTHERS
SHARPNESS
PIC
BGAIN
GGAIN
RGAIN
SCL
SDA
IC1702
CXA1779P
RGB AMP
12V
CLP
ROUT
GOUT
BOUT
IC1951
TDA4650/V4
SECAM-IDENT
IC1952
MC14053BF
IDENT SW
IC1953
TDA2579B
JUNGLE
CN1951
5P
:B-TO-B
12V
VIDEO
ID
GND
N.C.
TO BA (1/3) BOARD
CN1201
L1952
BELL
L1953
B-Y
Q1951 2SC2712 BUFFER
Q1952 2SC2712 INV
Q1953 2SC2712 BUFFER
Q1954 2SC2712 SECAM SW1
Q1955 2SC2712 AMP
Q1956 2SC2712 SECAM SW2
Q1957 2SC2712 INV
Q1958 2SC2712 INV
D1951 DAN202K SPEED UP
Q1815 2SA1462 BUFFER
Q1816 2SC3545 BUFFER
Q1817 2SA1462 BUFFER
Q1818 2SC3545 BUFFER
Q1819 2SA1462 BUFFER
Q1820 2SC3545 BUFFER
LEVEL DET
LEVEL ADJUST
BUFFER
SW
LPF
MA157-TX
MA77-TX
DTC114YKA
2SC2712
2SA1162
2SC3545
5V


7
8
9
10
11
12
13
14
15
16
17
BAA BOARD
①
0.8Vp-p(H)
②
6Vp-p(H)
③
0.7Vp-p(H)
5V
12V
R
G
B
LPF
VFIX/OTHERS
SHARPNESS
PIC
BGAIN
RGAIN
CLP
IC1901
CXA1875AX
D/A CONVERTER
IC1951
TDA4650/V4
SECAM-IDENT
IC1952
MC14053BF
IDENT SW
CN1951
5P
:B-TO-B
12V
VIDEO
ID
GND
N.C.
TO BA(1/3) BOARD
CN1201
L1951
100μH
L1952
BELL
L1953
L1954
47μH
:EL0606
B-Y
CIN
ACC
12V
DCF0
DCB
GND
REF SECAM
IDENT
SSCP
CLAMP
SECAM
Q1951
2SC2712
BUFFER
Q1952
2SC2712
INV
Q1953
2SC2712
BUFFER
Q1954
2SC2712
SECAM SW1
Q1955
2SC2712
AMP
Q1956
2SC2712
SECAM SW2
D1951
DAN202K
SPEED UP
Q1817
2SA1462
BUFFER
Q1818
2SC3545
BUFFER
MA157-TX
LEVEL ADJUST
DTC114YKA
SW
MA77-TX
OR
2SC2712
LEVEL DET
2SA1162
BUFFER
2SC3545
BUFFER
:CHIP
:RN-CP
B:CHIP
CH:CHIP

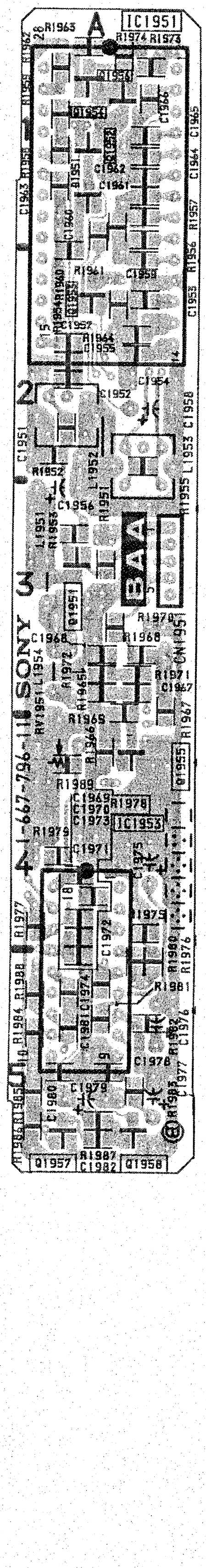

17
18
19
20
21
SUB5V
IC1307
ST24C08FM6TR
EEP ROM
SUBSV
SCLEEP
SDAEEP
RB1905 100*2
5V
IC1901
CXA1875AX
CONVERTER
SCL
SDA
RB1906 100*2
IC1702
CXA1779P
RGB AMP
12V
R
G
B
Q1815 2SA1462 BUFFER
Q1816 2SC3545 BUFFER
Q1817 2SA1462 BUFFER
Q1818 2SC3545 BUFFER
Q1819 2SA1462 BUFFER
Q1820 2SC3545 BUFFER
ROUT
GOUT
BOUT
B-SS1628<U/C>-BA.-P3
12V
RV1951
Q1957 2SC2712 INV
Q1958 2SC2712 INV
IC1953
TDA2579B
JUNGLE
BAA
(SECAM IDENT)
B-SS1628<U/C>-BAA

BAA [SECAM IDENT]

– BAA BOARD – <A Side>

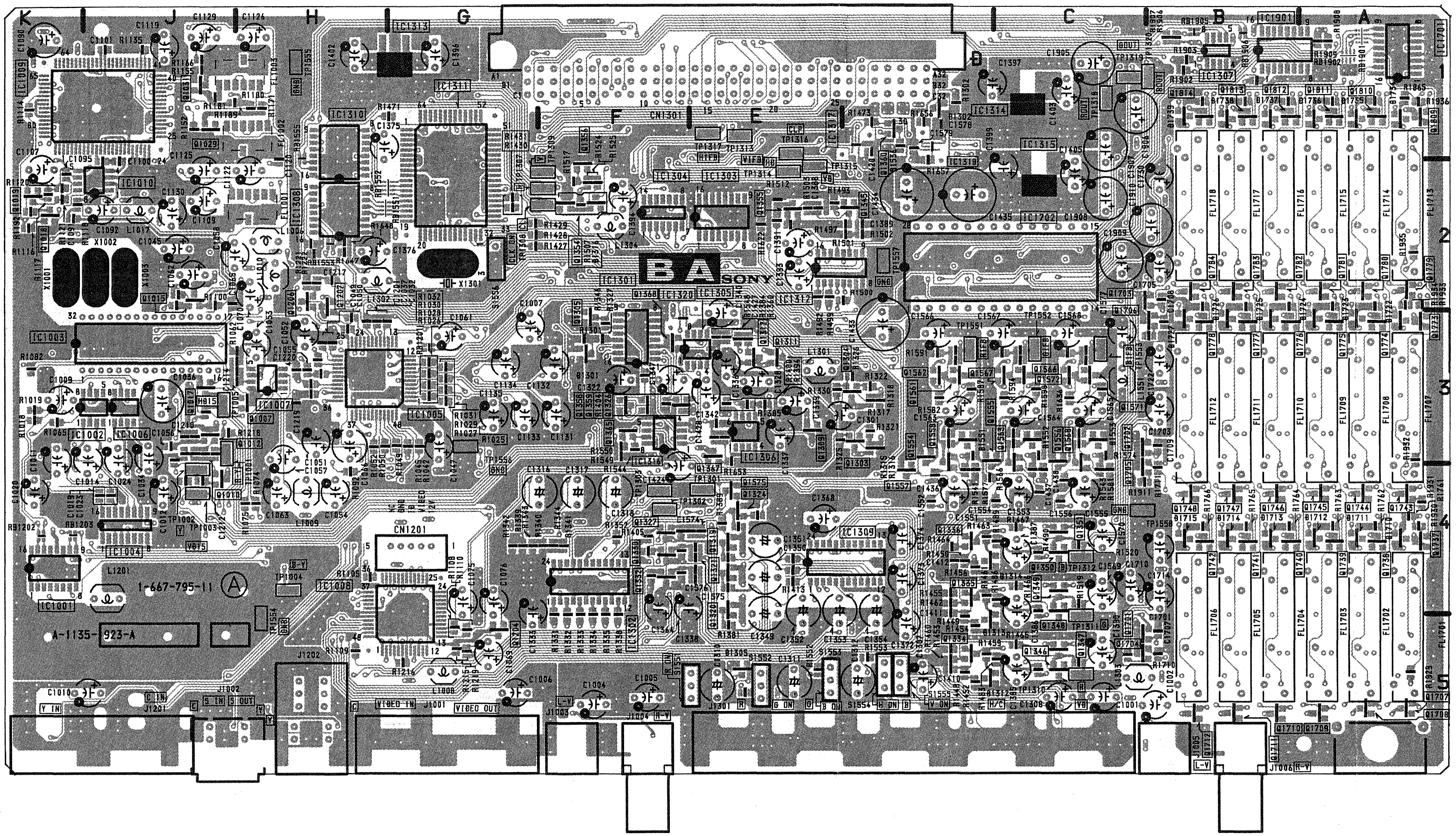

IC1951
A
1-667-796-11
SONY
CN1951
IC1952
IC1953
BAA
RV1951
C1956
C1979
A

<B Side>

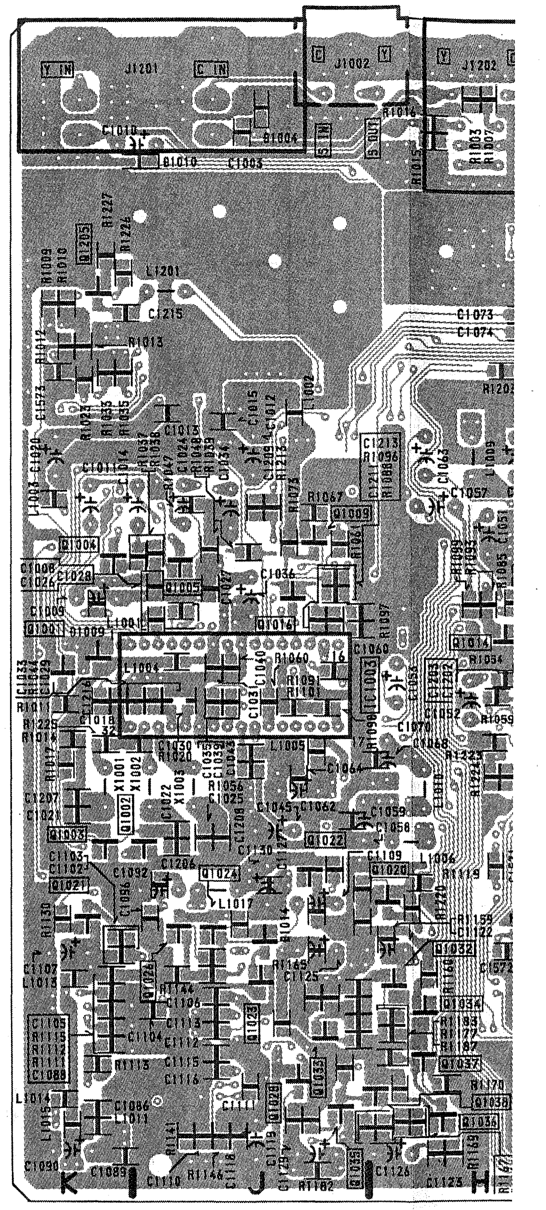

IC1951
A
1-667-796-11
SONY
BAA
CN1951
IC1955
IC1953
Q1951
Q1957
Q1958

BA [INPUT SELECT, SYNC SEP, Y/C, CHROMA DECODE, COMB FILTER]

– BA BOARD – <A Side>

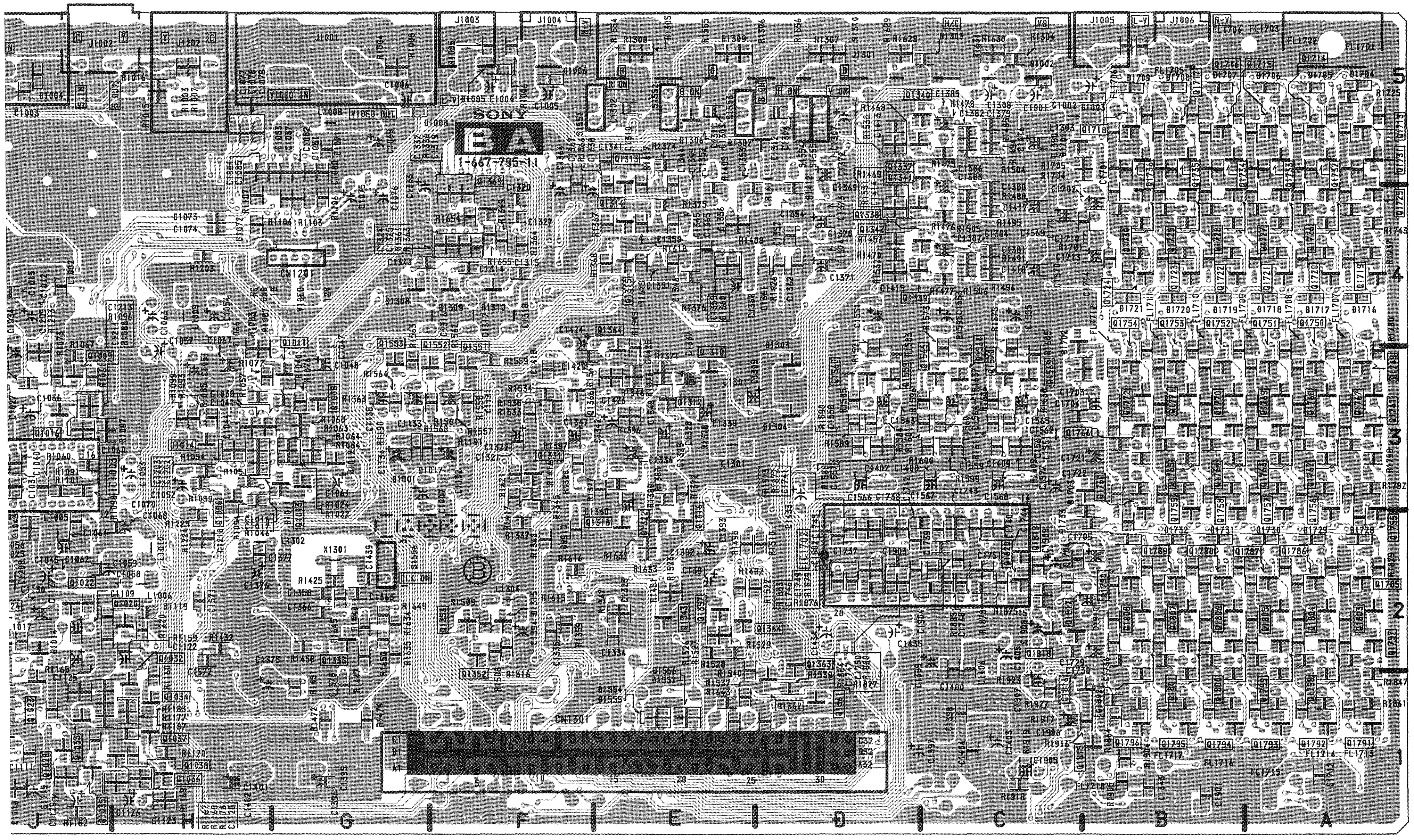

K
J
H
G
F
E
D
C
B
A
1
2
3
4
5
CN1301
BA SONY
1-667-795-11
A
A-1135-923-A
Y IN
C IN
J1201
S IN
S OUT
J1002
VIDEO IN
J1001
VIDEO OUT
J1202
CN1201
J1003
J1004
J1301
J1006

<B Side>


Y IN
J1201
C IN
J1002
J1202
K
J
H

BA BOARD
(A SIDE)

IC	
IC1001	K–4
IC1002	J–3
IC1003	J–3
IC1004	J–4
IC1005	H–3
IC1006	J–3
IC1007	H–3
IC1008	G–4
IC1009	J–1
IC1010	J–2
IC1301	F–3
IC1302	F–4
IC1303	E–2
IC1304	F–2
IC1305	E–3
IC1306	E–3
IC1307	B–1
IC1308	H–2
IC1309	D–4
IC1310	H–1
IC1311	G–1
IC1312	E–2
IC1313	G–1
IC1314	C–1
IC1315	C–2
IC1316	F–3
IC1317	E–1
IC1318	D–2
IC1319	F–3
IC1701	A–1
IC1702	D–2
IC1901	B–1
TRANSISTOR	
Q1007	H–3
Q1010	J–4
Q1012	J–3
Q1015	J–2
Q1017	J–3
Q1018	K–2
Q1019	K–2
Q1029	J–1
Q1031	J–1
Q1204	G–5
Q1206	H–2
Q1207	H–2
Q1303	D–3
Q1304	D–3
Q1305	F–2
Q1309	E–3
Q1311	E–3
Q1312	E–3
Q1319	E–4
Q1320	E–4
Q1321	E–4
Q1324	E–4
Q1326	F–3
Q1327	F–4
Q1330	F–4
Q1332	F–4
Q1334	D–5
Q1335	D–4
Q1336	D–4
Q1345	D–2
Q1346	C–5
Q1347	C–5
Q1348	C–4
Q1349	C–4
Q1350	C–4
Q1351	C–4
Q1354	F–2
Q1355	E–2
Q1356	F–1
Q1358	F–3
Q1359	F–3
Q1360	D–1
Q1365	F–3
Q1367	E–3
Q1368	F–3
Q1554	D–3
Q1555	D–3
Q1556	C–3
Q1557	D–4
Q1558	D–3
Q1561	D–3
Q1562	D–3
Q1563	C–3
Q1566	C–3
Q1567	C–3
Q1568	C–3
Q1571	C–3
Q1572	C–3
Q1575	E–4
Q1701	C–5
Q1702	C–3
Q1703	C–2
Q1704	C–5
Q1705	C–3
Q1706	C–2
Q1707	A–5
Q1708	A–5
Q1709	A–5
Q1710	B–5
Q1711	B–5
Q1712	B–5
Q1737	A–4
Q1738	A–4
Q1739	A–4
Q1740	B–4
Q1741	B–4
Q1742	B–4
Q1743	A–4
Q1744	A–4
Q1745	A–4
Q1746	B–4
Q1747	B–4
Q1748	B–4
Q1773	A–3
Q1774	A–3
Q1775	A–3
Q1776	B–3
Q1777	B–3
Q1778	B–3
Q1779	A–2
Q1780	A–2
Q1781	A–2
Q1782	B–2
Q1783	B–2
Q1784	B–2
Q1809	A–1
Q1810	A–1
Q1811	A–1
Q1812	B–1
Q1813	B–1
Q1814	B–1
DIODE	
D1301	F–3
D1302	D–1
D1305	F–3
D1312	D–5
D1313	D–5
D1314	C–4
D1316	F–2
D1551	D–3
D1552	C–3
D1553	C–3
D1710	A–4
D1711	A–4
D1712	A–4
D1713	B–4
D1714	B–4
D1715	B–4
D1722	A–3
D1723	A–3
D1724	A–3
D1725	B–3
D1726	B–3
D1727	B–3
D1734	A–1
D1735	A–1
D1736	A–1
D1737	B–1
D1738	B–1
D1739	B–1



BA BOARD
(B SIDE)

IC

IC1003	J–3
IC1702	D–2

TRANSISTOR

Q1001	K–3
Q1002	J–2
Q1003	K–2
Q1004	K–3
Q1005	J–3
Q1006	H–3
Q1008	G–3
Q1009	J–3
Q1011	G–3
Q1013	G–3
Q1014	H–3
Q1016	J–3
Q1020	H–2
Q1022	J–2
Q1023	J–1
Q1024	J–2
Q1026	J–2
Q1028	J–1
Q1032	H–2
Q1033	J–1
Q1034	H–1
Q1035	J–1
Q1036	H–1
Q1037	H–1
Q1038	H–1
Q1205	K–4
Q1310	E–3
Q1313	E–5
Q1314	E–4
Q1315	E–4
Q1316	E–2
Q1317	E–3
Q1318	E–2
Q1322	E–2
Q1331	F–3
Q1333	G–2
Q1337	D–5
Q1338	D–4
Q1339	D–4
Q1340	D–5
Q1341	D–5
Q1342	D–4
Q1343	E–2
Q1344	E–2
Q1352	F–2
Q1353	F–2
Q1357	E–2
Q1361	D–1
Q1362	D–1
Q1363	D–2
Q1364	E–4
Q1366	F–3
Q1369	F–4
Q1551	F–3
Q1552	F–3
Q1553	G–3
Q1559	D–3
Q1560	D–3
Q1564	C–3
Q1565	C–3
Q1569	C–3
Q1570	C–3
Q1713	A–5
Q1714	A–5
Q1715	A–5
Q1716	B–5
Q1717	B–5
Q1718	B–5
Q1719	A–4
Q1720	A–4
Q1721	A–4
Q1722	B–4
Q1723	B–4
Q1724	B–4
Q1725	A–4
Q1726	A–4
Q1727	A–4
Q1728	B–4
Q1729	B–4
Q1730	B–4
Q1731	A–5
Q1732	A–5
Q1733	A–5
Q1734	B–5
Q1735	B–5
Q1736	B–5
Q1749	A–3
Q1750	A–3
Q1751	A–3
Q1752	B–3
Q1753	B–3
Q1754	B–3
Q1755	A–3
Q1756	A–3
Q1757	A–3
Q1758	B–3
Q1759	B–3
Q1760	B–3
Q1767	A–3
Q1768	A–3
Q1769	A–3
Q1770	B–3
Q1771	B–3
Q1772	B–3
Q1785	A–2
Q1786	A–2
Q1787	A–2
Q1788	B–2
Q1789	B–2
Q1790	B–2
Q1791	A–1
Q1792	A–1
Q1793	A–1
Q1794	B–1
Q1795	B–1
Q1796	B–1
Q1797	A–2
Q1798	A–2
Q1799	A–2
Q1800	B–2
Q1801	B–2
Q1802	B–2
Q1803	A–2
Q1804	A–2
Q1805	A–2
Q1806	B–2
Q1807	B–2
Q1808	B–2
Q1815	B–1
Q1816	B–1
Q1817	C–2
Q1818	C–2
Q1819	C–2
Q1820	C–2

DIODE

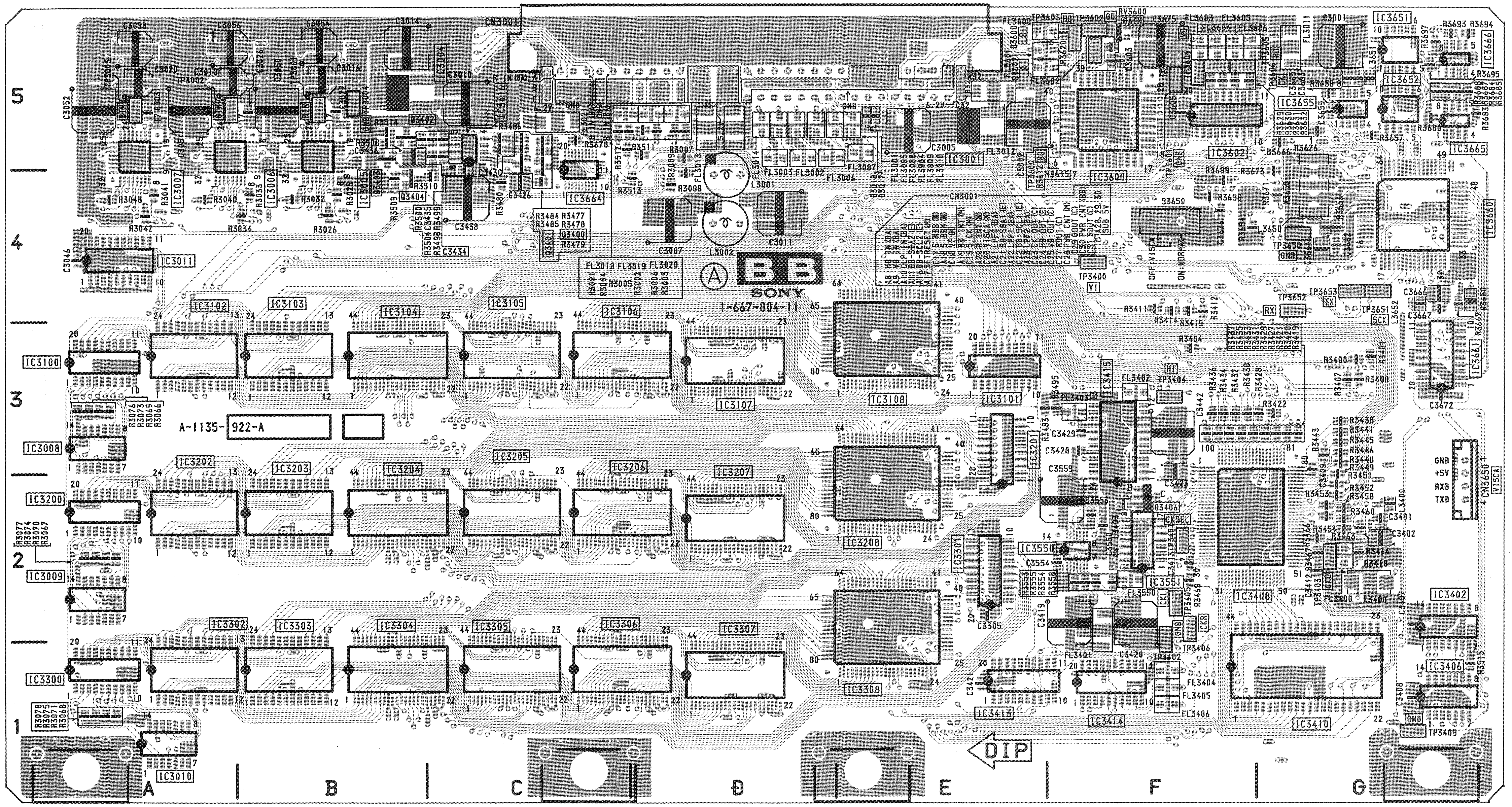
D1001	G–3
D1002	C–5
D1003	B–5
D1004	J–5
D1005	F–5
D1006	F–5
D1008	G–5
D1009	K–3
D1010	J–5
D1011	G–3
D1012	G–3
D1014	J–2
D1017	G–3
D1303	D–5
D1304	D–3
D1306	E–5
D1307	D–5
D1308	G–4
D1309	F–4
D1310	F–4
D1315	F–2
D1554	E–1
D1555	E–1
D1556	E–1
D1557	E–1
D1701	C–5
D1702	C–4
D1703	C–2
D1704	A–5
D1705	A–5
D1706	A–5
D1707	B–5
D1708	B–5
D1709	B–5
D1716	A–4
D1717	A–4
D1718	A–4
D1719	B–4
D1720	B–4
D1721	B–4
D1728	A–2
D1729	A–2
D1730	A–2
D1731	B–2
D1732	B–2
D1733	B–2

BB [SCAN CONVERTER]

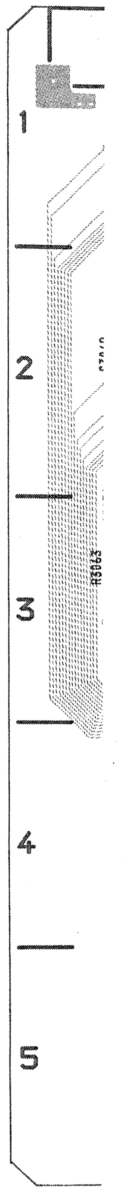
BB BOARD
(A SIDE)

IC	
IC3001	E–5
IC3004	B–5
IC3005	B–5
IC3006	A–5
IC3007	A–5
IC3008	A–3
IC3009	A–2
IC3010	A–1
IC3011	A–4
IC3100	A–3
IC3101	E–3
IC3102	A–3
IC3103	B–3
IC3104	B–3
IC3105	C–3
IC3106	C–3
IC3107	D–3
IC3108	E–3
IC3200	A–2
IC3201	E–3
IC3202	A–2
IC3203	B–2
IC3204	B–2
IC3205	C–2
IC3206	C–2
IC3207	D–2
IC3208	E–2
IC3300	A–1
IC3301	E–2
IC3302	A–1
IC3303	B–1
IC3304	B–1
IC3305	C–1
IC3306	C–1
IC3307	D–1
IC3308	E–1
IC3402	G–2
IC3406	G–1
IC3408	F–2
IC3410	G–1
IC3413	E–1
IC3414	F–1
IC3415	F–3
IC3416	C–5
IC3550	F–2
IC3551	F–2
IC3600	F–5
IC3602	F–5
IC3651	G–5
IC3655	G–5
IC3660	G–4
IC3661	G–3
IC3664	C–4
TRANSISTOR	
Q3400	C–5
Q3401	C–5
Q3402	B–5
Q3403	B–5
Q3404	B–4
Q3406	F–2
DIODE	
D3017	E–5
D3018	E–5
D3650	G–4
VARIABLE RESISTOR	
RV3600	F–5

– BB BOARD – <A Side>



<B Side



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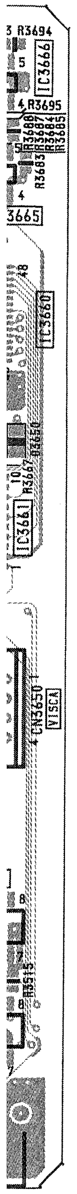
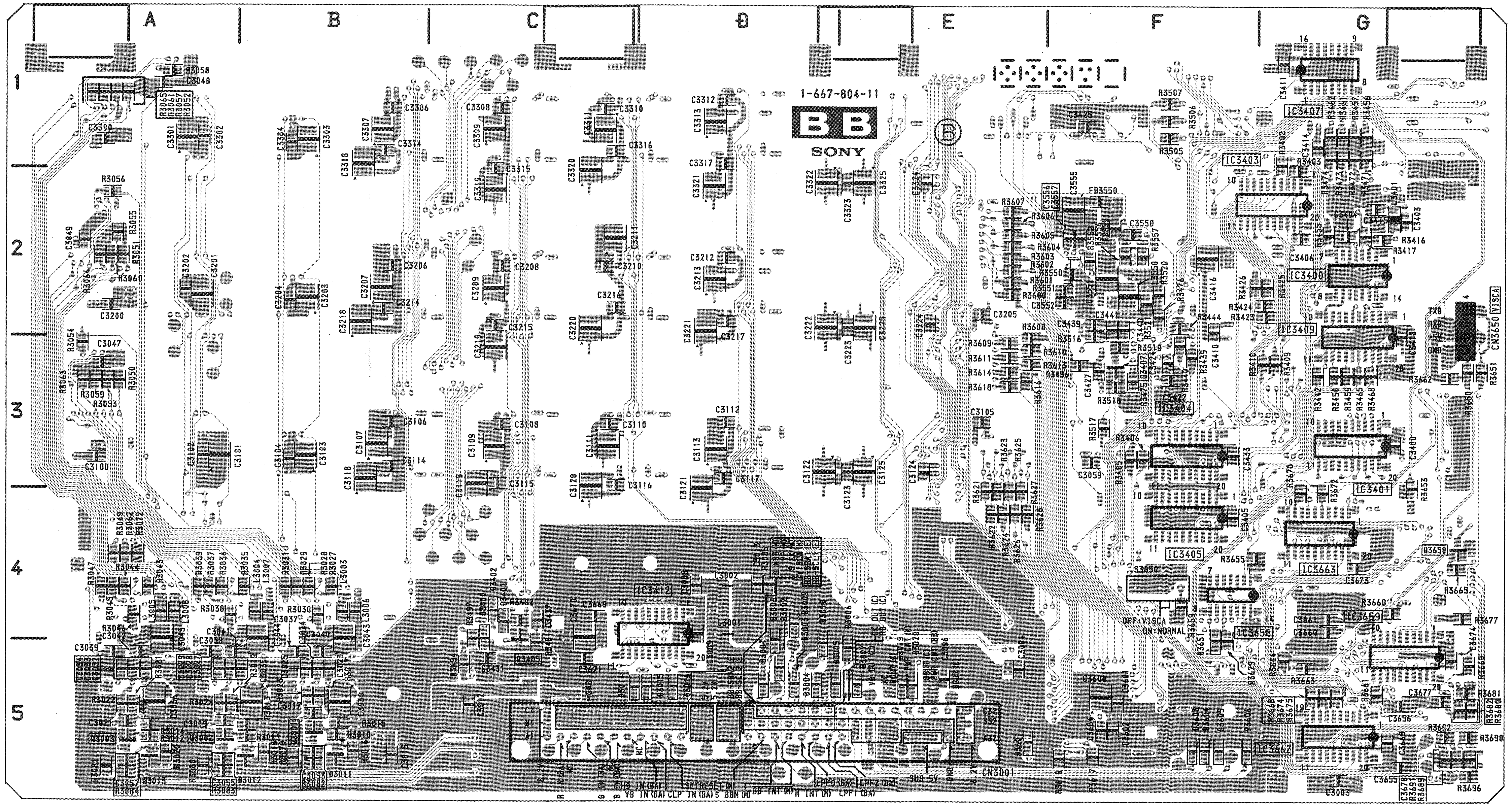
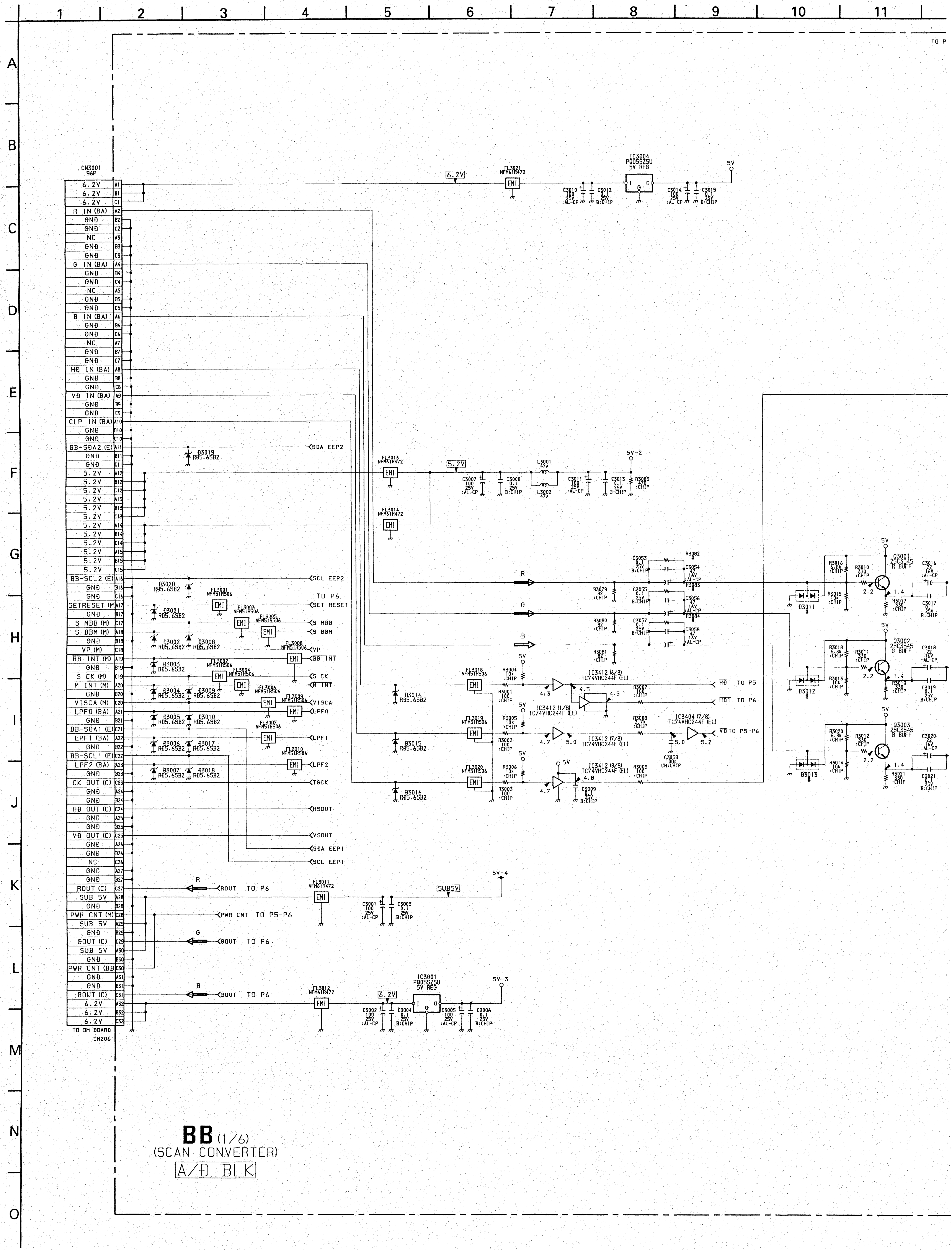



A
B
C
D
E
F
G
1
2
3
4
5
1-667-804-11
BB
SONY
CN3001
CN3650 VISCA

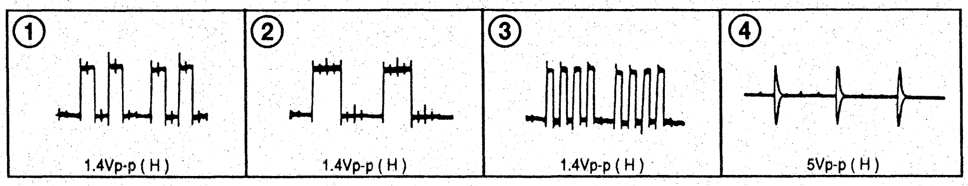
BB BOARD
(B SIDE)

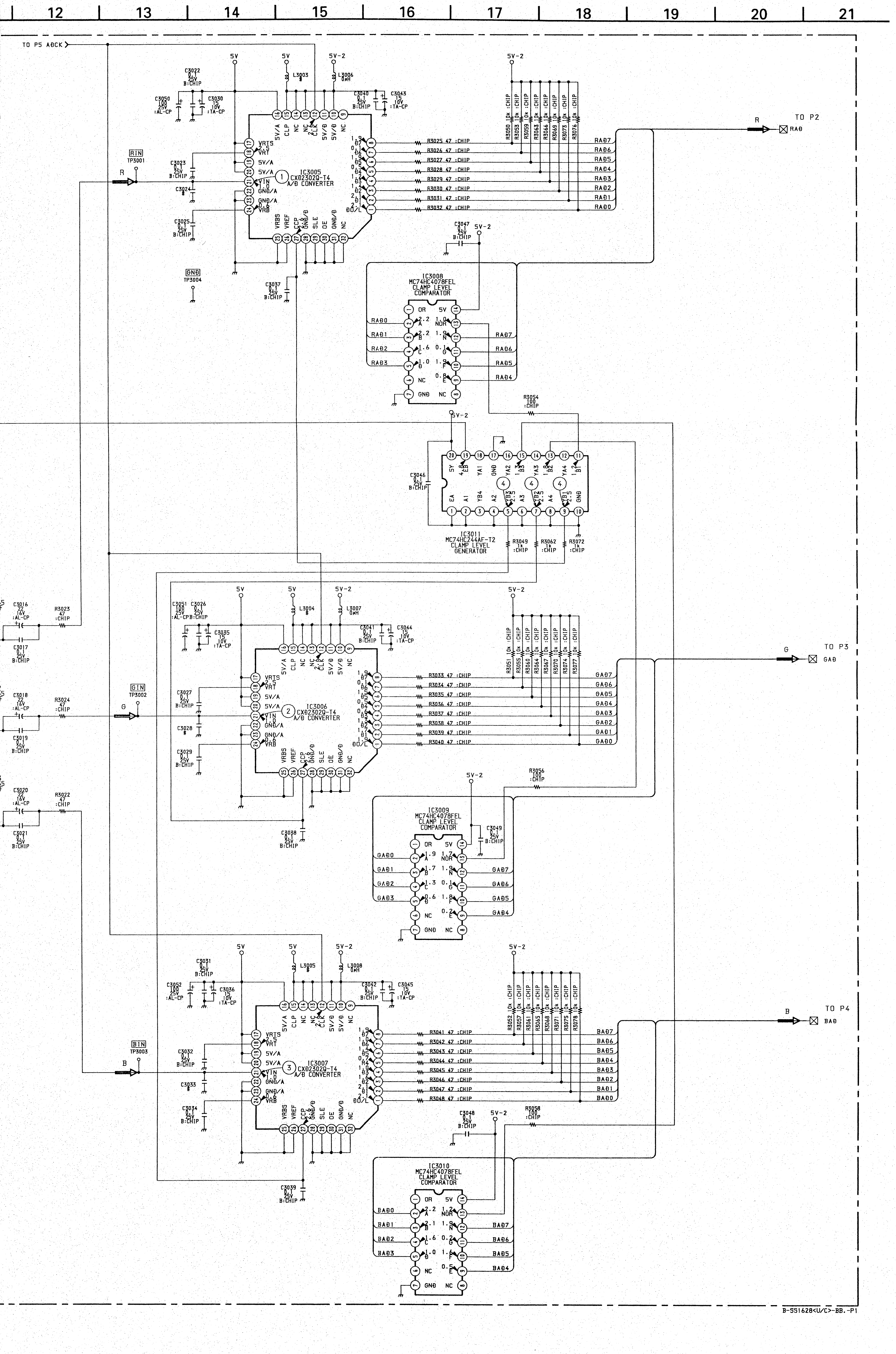
IC		DIODE	
IC3400	G–2	D3001	D–5
IC3401	G–3	D3002	D–5
IC3403	G–2	D3003	D–5
IC3404	F–3	D3004	D–5
IC3405	F–4	D3005	E–5
IC3407	G–1	D3006	E–5
IC3409	G–2	D3007	E–5
IC3412	D–4	D3008	D–4
IC3658	F–4	D3009	D–4
IC3659	G–5	D3010	D–4
IC3662	G–5	D3014	D–5
IC3663	G–4	D3015	D–5
		D3016	D–5
TRANSISTOR		D3019	E–5
		D3020	E–5
Q3001	B–5	D3400	C–4
Q3002	A–5	D3401	C–4
Q3003	A–5	D3402	C–4
Q3405	C–4	D3603	F–5
Q3407	F–3	D3606	F–5
Q3650	G–4	D3651	F–4


CN3001
96P
6.2V A1
6.2V B1
6.2V C1
R IN (BA) A2
GNÐ B2
GNÐ C2
NC A3
GNÐ B3
GNÐ C3
G IN (BA) A4
GNÐ B4
GNÐ C4
NC A5
GNÐ B5
GNÐ C5
B IN (BA) A6
GNÐ B6
GNÐ C6
NC A7
GNÐ B7
GNÐ C7
HÐ IN (BA) A8
GNÐ B8
GNÐ C8
VÐ IN (BA) A9
GNÐ B9
GNÐ C9
CLP IN (BA) A10
GNÐ B10
GNÐ C10
BB-SÐA2 (E) A11
GNÐ B11
GNÐ C11
5.2V A12
5.2V B12
5.2V C12
5.2V A13
5.2V B13
5.2V C13
5.2V A14
5.2V B14
5.2V C14
5.2V A15
5.2V B15
5.2V C15
BB-SCL2 (E) A16
GNÐ B16
GNÐ C16
SETRESET (M) A17
GNÐ B17
S MBB (M) C17
S BBM (M) A18
GNÐ B18
VP (M) C18
BB INT (M) A19
GNÐ B19
S CK (M) C19
M INT (M) A20
GNÐ B20
VISCA (M) C20
LPF0 (BA) A21
GNÐ B21
BB-SÐA1 (E) C21
LPF1 (BA) A22
GNÐ B22
BB-SCL1 (E) C22
LPF2 (BA) A23
GNÐ B23
CK OUT (C) C23
GNÐ A24
GNÐ B24
HÐ OUT (C) C24
GNÐ A25
GNÐ B25
VÐ OUT (C) C25
GNÐ A26
GNÐ B26
NC C26
GNÐ A27
GNÐ B27
ROUT (C) C27
SUB 5V A28
GNÐ B28
PWR CNT (M) C28
SUB 5V A29
GNÐ B29
GOUT (C) C29
SUB 5V A30
GNÐ B30
PWR CNT (BB) C30
GNÐ A31
GNÐ B31
BOUT (C) C31
6.2V A32
6.2V B32
6.2V C32
TO BM BOARD
CN206
6.2V
FL3021
NFM61R472
IC3004
PQ05SZ5U
5V REG
5V
C3010 100 25V :AL-CP
C3012 0.1 25V B:CHIP
C3014 100 25V :AL-CP
C3015 0.1 25V B:CHIP
D3019 RD5.6SB2
SÐA EEP2
FL3013 NFM61R472
FL3014 NFM61R472
5.2V
C3007 100 25V :AL-CP
C3008 0.1 25V B:CHIP
L3001 47μ
L3002 47μ
C3011 100 25V :AL-CP
C3013 0.1 25V B:CHIP
R3085 470 :CHIP
5V-2
D3020 RD5.6SB2
SCL EEP2
TO P6
SET RESET
FL3001 NFM51R506
FL3003 NFM51R506
FL3005 NFM51R506
S MBB
S BBM
D3001 RD5.6SB2
D3002 RD5.6SB2
D3008 RD5.6SB2
FL3008 NFM51R506
VP
BB INT
D3003 RD5.6SB2
FL3002 NFM51R506
FL3004 NFM51R506
S CK
M INT
D3004 RD5.6SB2
D3009 RD5.6SB2
FL3006 NFM51R506
FL3009 NFM51R506
VISCA
LPF0
D3005 RD5.6SB2
D3010 RD5.6SB2
FL3007 NFM51R506
LPF1
D3006 RD5.6SB2
D3017 RD5.6SB2
FL3010 NFM51R506
LPF2
D3007 RD5.6SB2
D3018 RD5.6SB2
TGCK
HSOUT
VSOUT
SÐA EEP1
SCL EEP1
R
G
B
C3053 0.1 25V B:CHIP
R3082
C3054 47 16V :AL-CP
R3083
R3079 82 :CHIP
C3055 0.1 25V B:CHIP
C3056 47 16V :AL-CP
R3084
R3080 82 :CHIP
C3057 0.1 25V B:CHIP
C3058 47 16V :AL-CP
R3081 82 :CHIP
D3014 RD5.6SB2
D3015 RD5.6SB2
D3016 RD5.6SB2
FL3018 NFM51R506
FL3019 NFM51R506
FL3020 NFM51R506
R3004 10k :CHIP
R3001 100 :CHIP
R3005 10k :CHIP
R3002 100 :CHIP
R3006 10k :CHIP
R3003 100 :CHIP
IC3412 (6/8) TC74VHC244F (EL)
IC3412 (1/8) TC74VHC244F (EL)
IC3412 (7/8) TC74VHC244F (EL)
IC3412 (8/8) TC74VHC244F (EL)
IC3404 (7/8) TC74VHC244F (EL)
4.3
4.5
4.5
4.7
5.0
5.0
5.2
4.7
4.8
R3007 100 :CHIP
R3008 2.7k :CHIP
R3009 100 :CHIP
C3059 100p CH:CHIP
C3009 0.1 25V B:CHIP
HÐ TO P5
HÐT TO P6
VÐ TO P5-P6
Q3001 2SC3545 R BUFF
Q3002 2SC3545 G BUFF
Q3003 2SC3545 B BUFF
R3016 6.8k :CHIP
R3010 330 :CHIP
R3015 10k :CHIP
R3017 330 :CHIP
C3016 22 16V :AL-CP
C3017 0.1 25V B:CHIP
R3018 6.8k :CHIP
R3011 330 :CHIP
R3013 10k :CHIP
R3019 330 :CHIP
C3018 22 16V :AL-CP
C3019 0.1 25V B:CHIP
R3020 6.8k :CHIP
R3012 330 :CHIP
R3014 10k :CHIP
R3021 330 :CHIP
C3020 22 16V :AL-CP
C3021 0.1 25V B:CHIP
D3011
D3012
D3013
2.2
1.4
TO P
ROUT TO P6
PWR CNT TO P5-P6
GOUT TO P6
BOUT TO P6
FL3011 NFM61R472
SUB5V
5V-4
C3001 100 25V :AL-CP
C3003 0.1 25V B:CHIP
FL3012 NFM61R472
IC3001 PQ05SZ5U 5V REG
6.2V
5V-3
C3002 100 25V :AL-CP
C3004 0.1 25V B:CHIP
C3005 100 25V :AL-CP
C3006 0.1 25V B:CHIP
EMI
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O

BB (1/6)
(SCAN CONVERTER)
A/Ð BLK

BB (1/6) BOARD





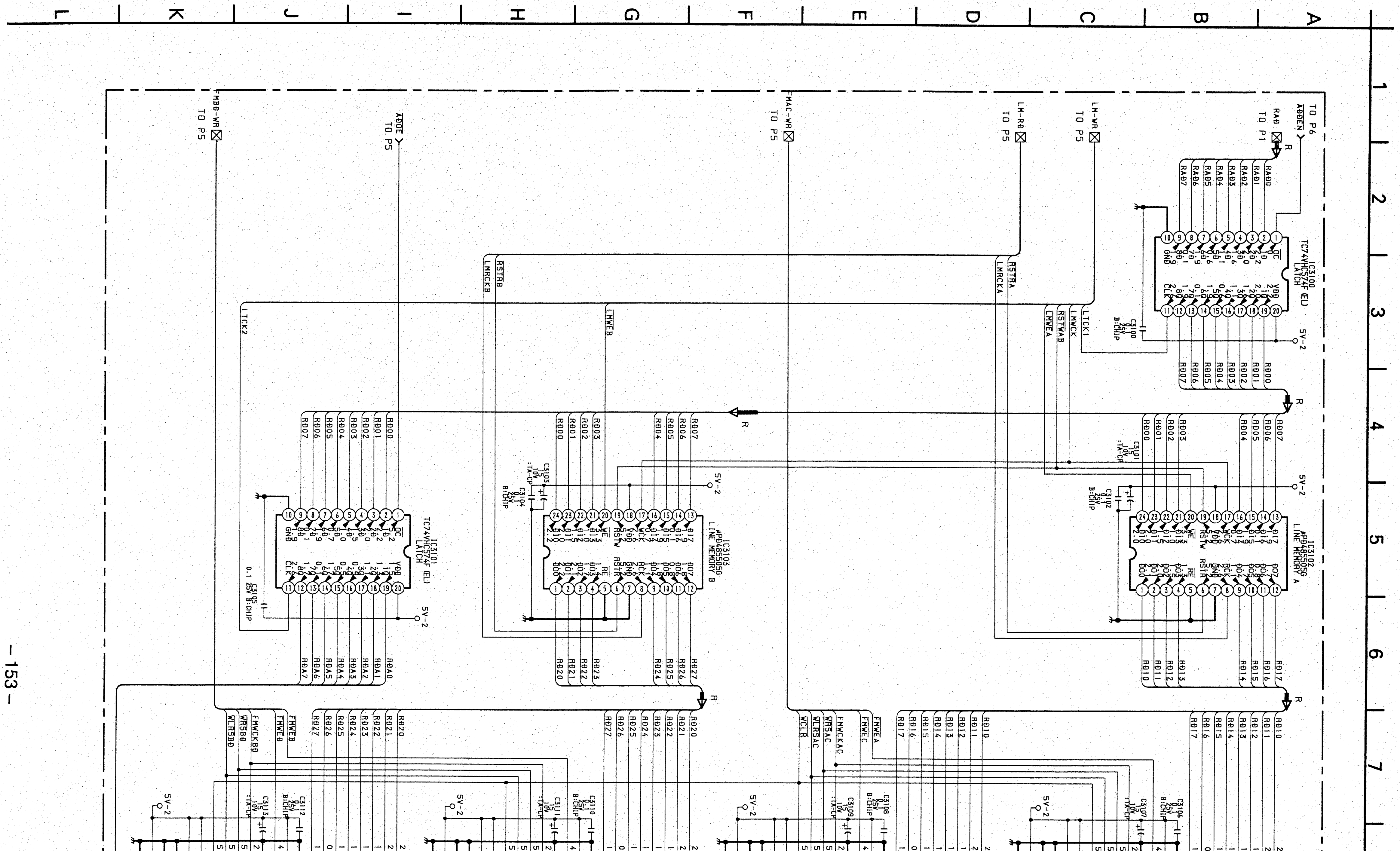
12
13
14
15
16
17
18
19
20
21
TO PS ADCK
IC3005
CX02302Q-T4
A/D CONVERTER
IC3006
CX02302Q-T4
A/D CONVERTER
IC3007
CX02302Q-T4
A/D CONVERTER
IC3008
MC74HC4078FEL
CLAMP LEVEL
COMPARATOR
IC3009
MC74HC4078FEL
CLAMP LEVEL
COMPARATOR
IC3010
MC74HC4078FEL
CLAMP LEVEL
COMPARATOR
IC3011
MC74HC244AF-T2
CLAMP LEVEL
GENERATOR
RIN
TP3001
GIN
TP3002
BIN
TP3003
GND
TP3004
R
G
B
TO P2
RA0
TO P3
GA0
TO P4
BA0
VRTS
VRT
5V/A
VIN
GND/A
VRB
VRBS
VREF
CCP
GND/D
SLE
OE
NC
CLP
CLK
5V/D
D0/L
D7
RA00
RA01
RA02
RA03
RA04
RA05
RA06
RA07
GA00
GA01
GA02
GA03
GA04
GA05
GA06
GA07
BA00
BA01
BA02
BA03
BA04
BA05
BA06
BA07
OR
NOR
5V
5V-2
L3003
L3004
L3005
L3006
0AH
L3007
0AH
L3008
0AH
C3022
0.1
25V
B:CHIP
C3050
100
25V
:AL-CP
C3030
15
10V
:TA-CP
C3040
0.1
25V
B:CHIP
C3043
15
10V
:TA-CP
C3023
0.1
25V
B:CHIP
C3024
C3025
0.1
25V
B:CHIP
C3037
0.1
25V
B:CHIP
C3047
0.1
25V
B:CHIP
C3046
0.1
25V
B:CHIP
R3025 47 :CHIP
R3026 47 :CHIP
R3027 47 :CHIP
R3028 47 :CHIP
R3029 47 :CHIP
R3030 47 :CHIP
R3031 47 :CHIP
R3032 47 :CHIP
R3050 10k :CHIP
R3053 10k :CHIP
R3059 10k :CHIP
R3063 10k :CHIP
R3066 10k :CHIP
R3069 10k :CHIP
R3073 10k :CHIP
R3076 10k :CHIP
R3054
100
:CHIP
R3049
1k
:CHIP
R3062
1k
:CHIP
R3072
1k
:CHIP
EA
A1
YB4
A2
YB3
A3
YB2
A4
YB1
GND
5Y
EB
YA1
YA2
B3
YA3
B2
YA4
B1
C3016
22
16V
:AL-CP
C3017
0.1
25V
B:CHIP
R3023
47
:CHIP
C3018
22
16V
:AL-CP
C3019
0.1
25V
B:CHIP
R3024
47
:CHIP
C3020
22
16V
:AL-CP
C3021
0.1
25V
B:CHIP
R3022
47
:CHIP
C3051
100
25V
:AL-CP
C3026
0.1
25V
B:CHIP
C3035
15
10V
:TA-CP
C3041
0.1
25V
B:CHIP
C3044
15
10V
:TA-CP
C3027
0.1
25V
B:CHIP
C3028
C3029
0.1
25V
B:CHIP
C3038
0.1
25V
B:CHIP
R3033 47 :CHIP
R3034 47 :CHIP
R3035 47 :CHIP
R3036 47 :CHIP
R3037 47 :CHIP
R3038 47 :CHIP
R3039 47 :CHIP
R3040 47 :CHIP
R3051 10k :CHIP
R3055 10k :CHIP
R3060 10k :CHIP
R3064 10k :CHIP
R3067 10k :CHIP
R3070 10k :CHIP
R3074 10k :CHIP
R3077 10k :CHIP
R3056
100
:CHIP
C3049
0.1
25V
B:CHIP
C3031
0.1
25V
B:CHIP
C3052
100
25V
:AL-CP
C3036
15
10V
:TA-CP
C3042
0.1
25V
B:CHIP
C3045
15
10V
:TA-CP
C3032
0.1
25V
B:CHIP
C3033
C3034
0.1
25V
B:CHIP
C3039
0.1
25V
B:CHIP
C3048
0.1
25V
B:CHIP
R3041 47 :CHIP
R3042 47 :CHIP
R3043 47 :CHIP
R3044 47 :CHIP
R3045 47 :CHIP
R3046 47 :CHIP
R3047 47 :CHIP
R3048 47 :CHIP
R3052 10k :CHIP
R3057 10k :CHIP
R3061 10k :CHIP
R3065 10k :CHIP
R3068 10k :CHIP
R3071 10k :CHIP
R3075 10k :CHIP
R3078 10k :CHIP
R3058
100
:CHIP
B-551628<U/C>-BB.-P1

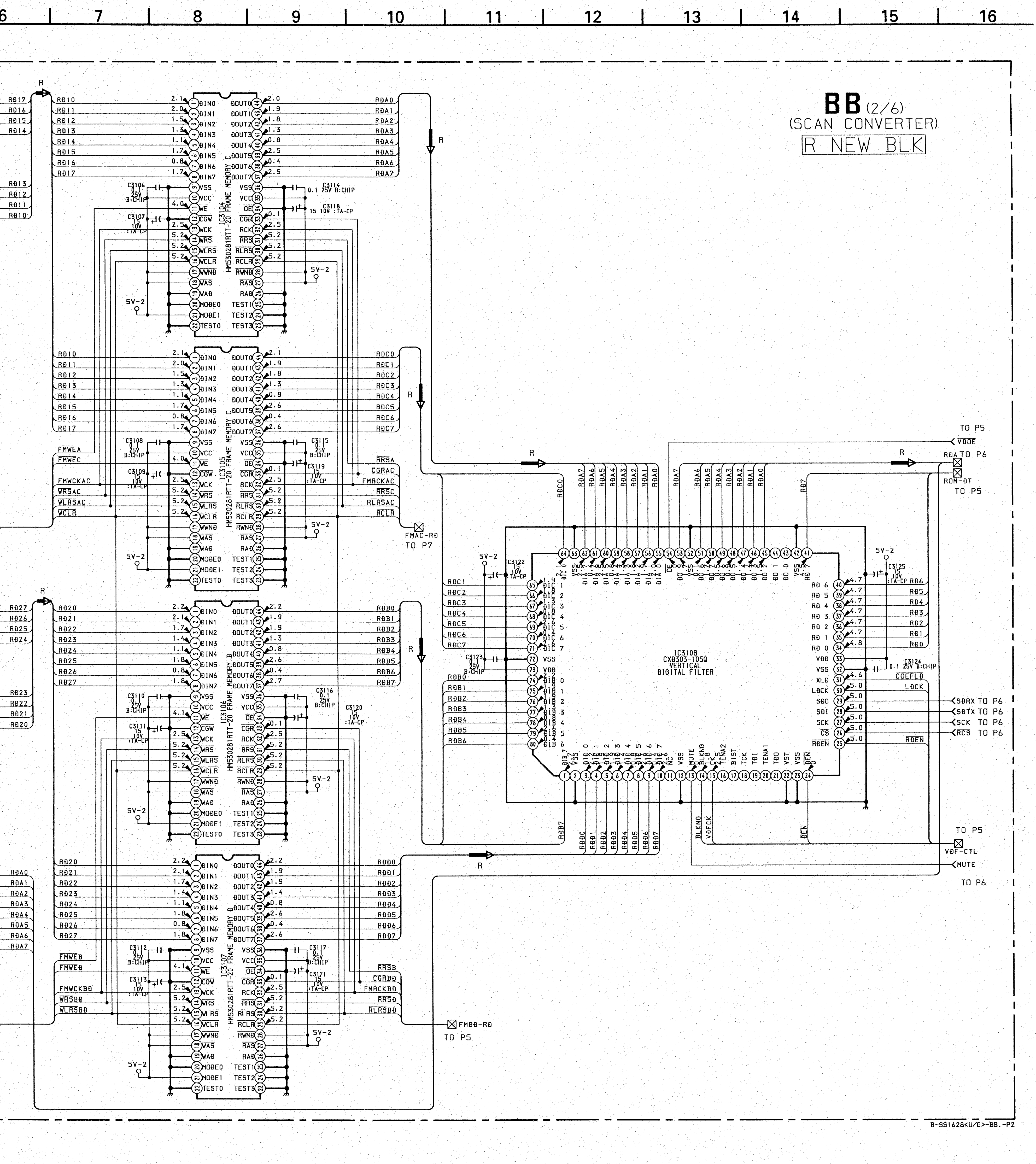
Schematic diagram

← BB(1/6) board

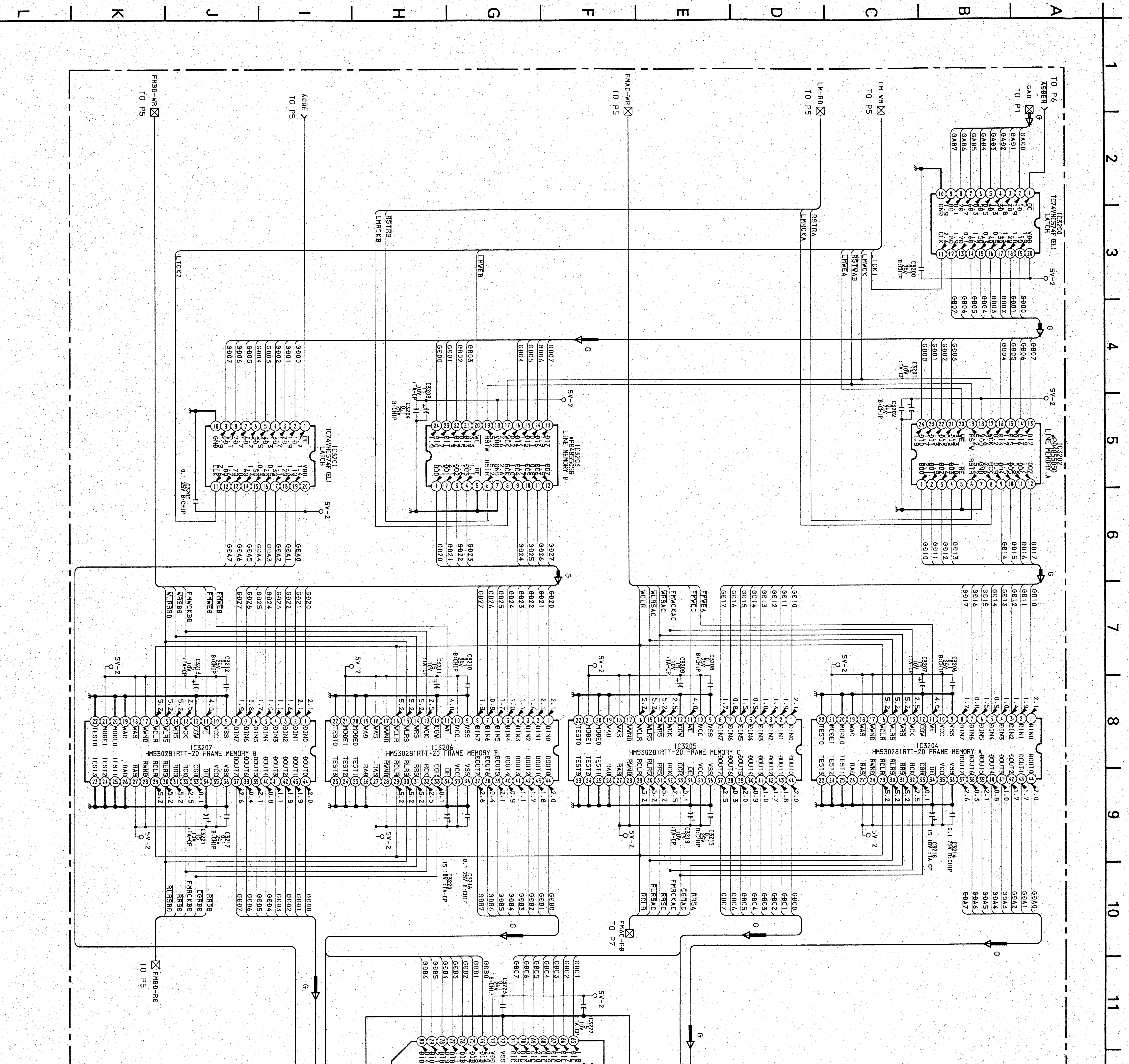
Schematic diagram

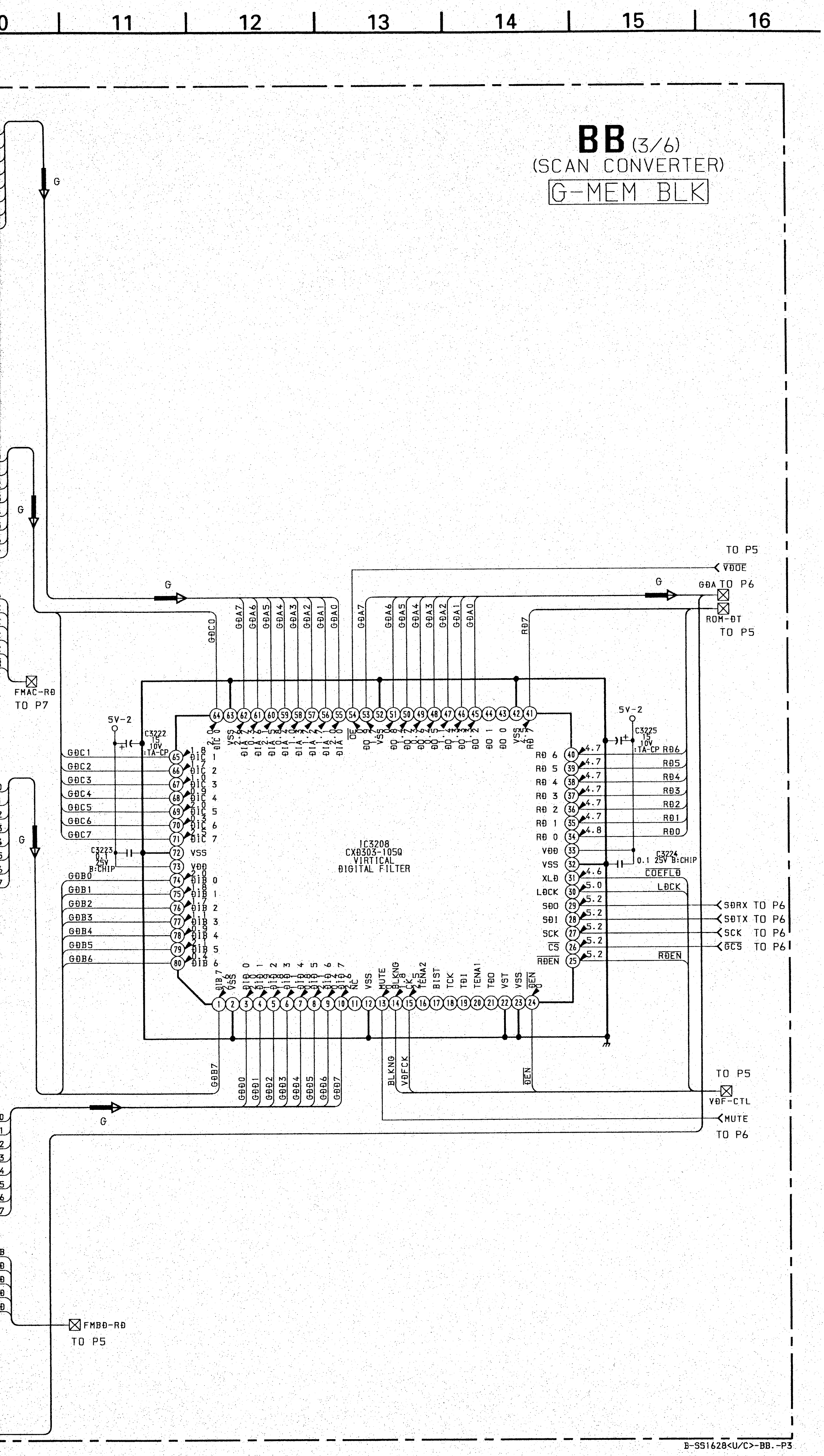
BB(2/6) board →


TO P6
ADDER
RAD
TO P1
LM-WR
TO P5
LM-RD
TO P5
FMAC-WR
TO P5
ADOE
TO P5
FMBB-WR
TO P5
IC3100
TC74VHC574F(EL)
LATCH
IC3101
TC74VHC574F(EL)
LATCH
IC3102
μPD485505G
LINE MEMORY A
IC3103
μPD485505G
LINE MEMORY B
5V-2
A
B
C
D
E
F
G
H
I
J
K
L
1
2
3
4
5
6
7


IC3104
HM530281RTT-20 FRAME MEMORY C
IC3105
HM530281RTT-20 FRAME MEMORY C
IC3106
HM530281RTT-20 FRAME MEMORY B
IC3107
HM530281RTT-20 FRAME MEMORY B
IC3108
CXD0303-105Q
VERTICAL
DIGITAL FILTER
FMAC-R0
TO P7
FMB0-R0
TO P5
VD0E
TO P5
R0A TO P6
R0M-0T
TO P5
S0RX TO P6
S0TX TO P6
SCK TO P6
RCS TO P6
V0F-CTL
TO P5
MUTE
TO P6
5V-2
B-SS1628<U/C>-BB.-P2

BB (2/6)
(SCAN CONVERTER)
R NEW BLK


TO P6
ABDEN
GAB
TO P1
IC3200
TC74VHC574F(EL)
LATCH
LM-WR
TO P5
LM-RB
TO P5
FMAC-WR
TO P5
ABOE
TO P5
FMBD-WR
TO P5
IC3202
µPD485505G
LINE MEMORY A
IC3203
µPD485505G
LINE MEMORY B
IC3201
TC74VHC574F(EL)
LATCH
IC3204
HM530281RTT-20 FRAME MEMORY A
IC3205
HM530281RTT-20 FRAME MEMORY C
IC3206
HM530281RTT-20 FRAME MEMORY B
IC3207
HM530281RTT-20 FRAME MEMORY D
FMAC-RD
TO P7
FMBD-RD
TO P5
5V-2
G
A
B
C
D
E
F
G
H
I
J
K
L
1
2
3
4
5
6
7
8
9
10
11



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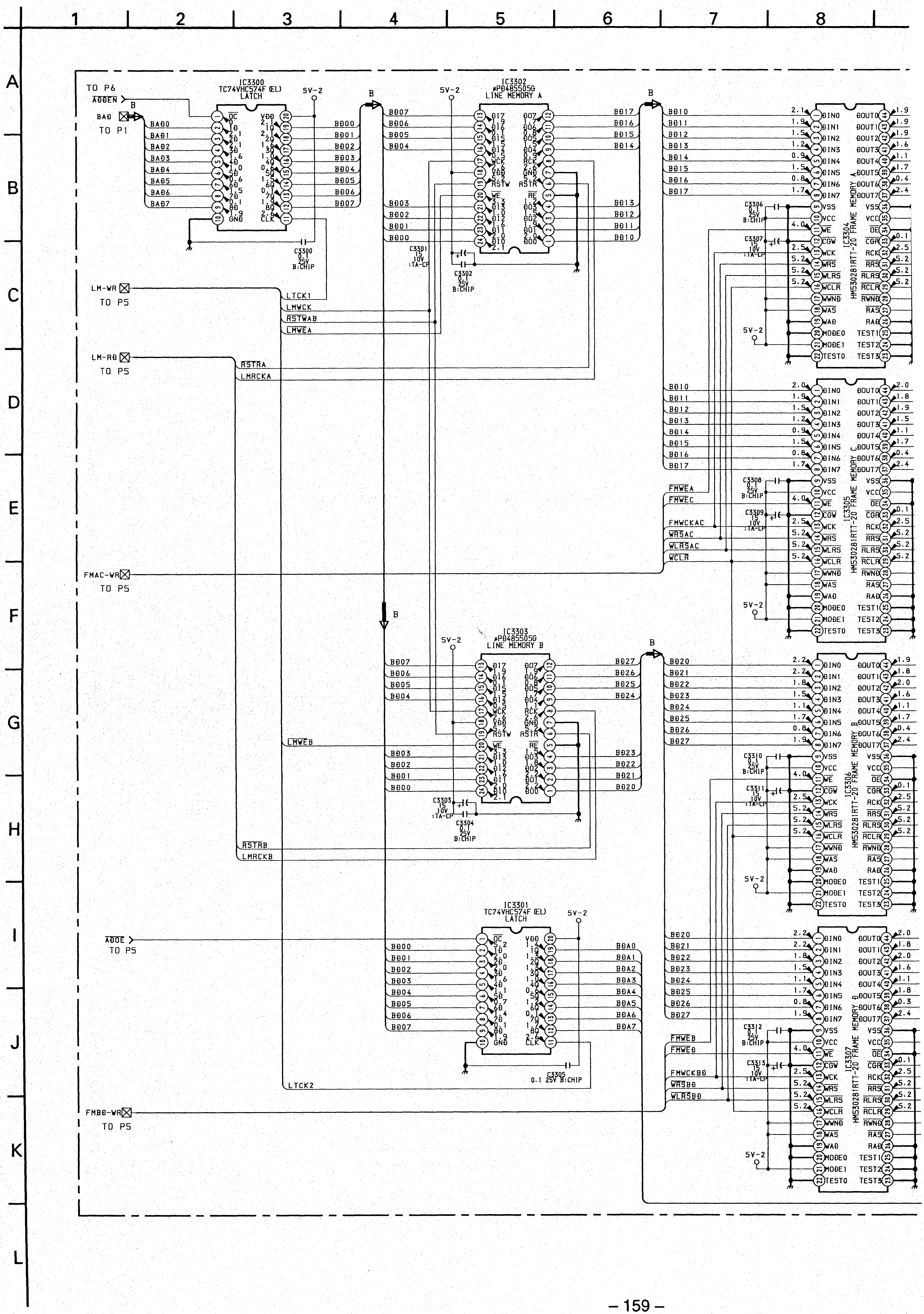
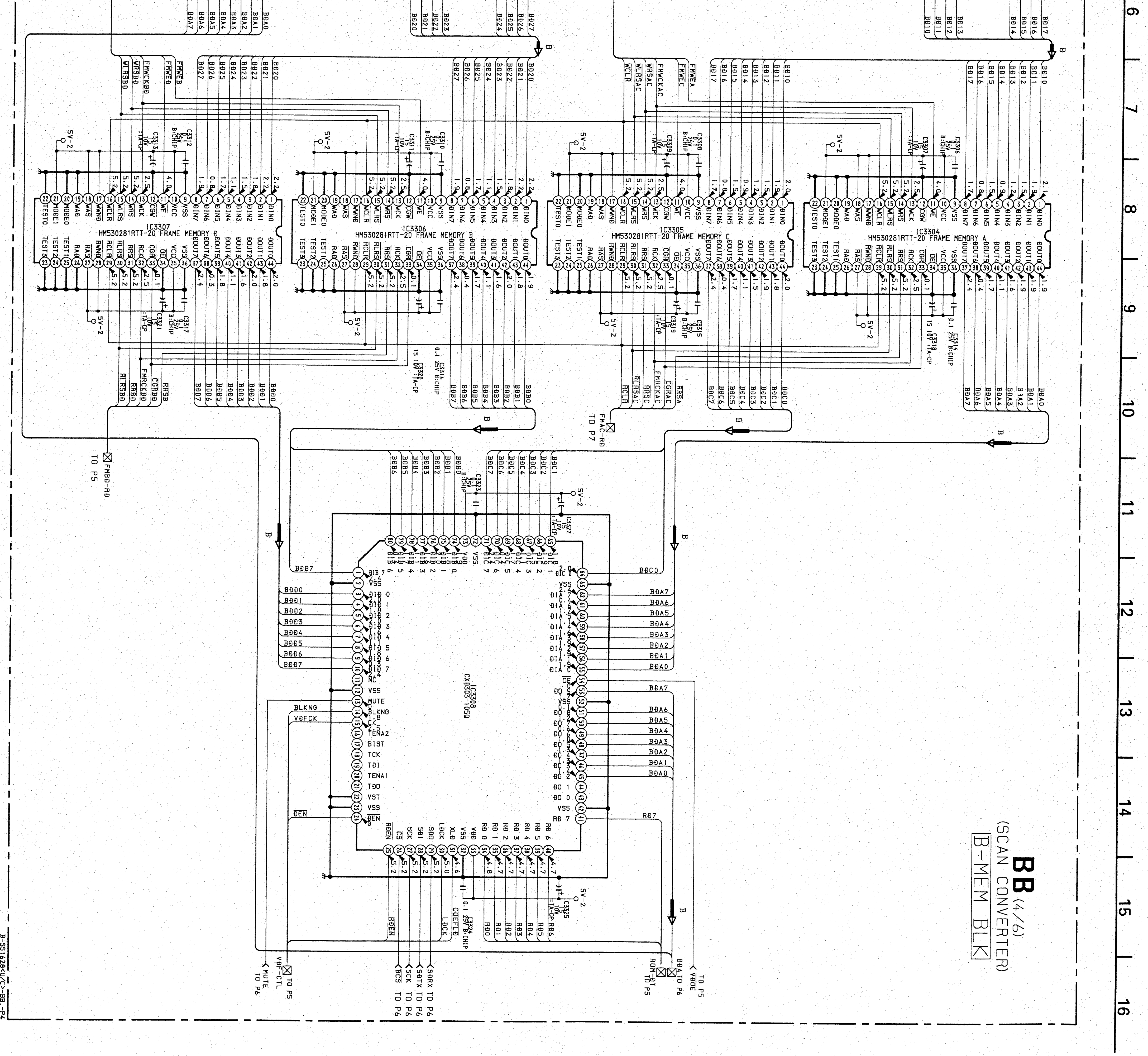
16
BB (3/6)
(SCAN CONVERTER)
G-MEM BLK
IC3208
CXD303-105Q
VIRTICAL
DIGITAL FILTER
5V-2
C3222 15 10V :TA-CP
C3223 0.1 25V B:CHIP
C3224 0.1 25V B:CHIP
C3225 15 10V :TA-CP
G
GDC0
GDC1
GDC2
GDC3
GDC4
GDC5
GDC6
GDC7
GDB0
GDB1
GDB2
GDB3
GDB4
GDB5
GDB6
GDB7
GDA0
GDA1
GDA2
GDA3
GDA4
GDA5
GDA6
GDA7
RD0
RD1
RD2
RD3
RD4
RD5
RD6
RD7
BLKNG
VDFCK
DEN
RDEN
LDCK
COEFLD
FMAC-RD
TO P7
FMBD-RD
TO P5
TO P5
VDOE
GDA TO P6
ROM-DT
TO P5
SDRX TO P6
SDTX TO P6
SCK TO P6
DCS TO P6
TO P5
VDF-CTL
MUTE
TO P6
B-S51628<U/C>-BB.-P3

Schematic diagram
← **BB(3/6)** board


IC3300
TC74VHC574F (EL)
LATCH
IC3301
TC74VHC574F (EL)
LATCH
IC3302
μPD485505G
LINE MEMORY A
IC3303
μPD485505G
LINE MEMORY B
IC3304
HM530281RTT-20 FRAME MEMORY A
IC3305
HM530281RTT-20 FRAME MEMORY C
IC3306
HM530281RTT-20 FRAME MEMORY B
IC3307
HM530281RTT-20 FRAME MEMORY D
TO P6
ADDEN
BA0
TO P1
LM-WR
TO P5
LM-RB
TO P5
FMAC-WR
TO P5
ADOE
TO P5
FMBD-WR
TO P5
5V-2
LTCK1
LMWCK
RSTWAB
LMWEA
RSTRA
LMRCKA
LMWEB
RSTRB
LMRCKB
LTCK2
FMWEA
FMWEC
FMWCKAC
WRSAC
WLRSAC
WCLR
FMWEB
FMWED
FMWCKBD
WRSBD
WLRSBD
C3300 0.1 25V B:CHIP
C3301 15 10V :TA-CP
C3302 0.1 25V B:CHIP
C3303 15 10V :TA-CP
C3304 0.1 25V B:CHIP
C3305 0.1 25V B:CHIP
C3306 0.1 25V B:CHIP
C3307 15 10V :TA-CP
C3308 0.1 25V B:CHIP
C3309 15 10V :TA-CP
C3310 0.1 25V B:CHIP
C3311 15 10V :TA-CP
C3312 0.1 25V B:CHIP
C3313 15 10V :TA-CP
1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
L


IC3307
HM530281RTT-20 FRAME MEMORY
IC3306
HM530281RTT-20 FRAME MEMORY
IC3305
HM530281RTT-20 FRAME MEMORY
IC3304
HM530281RTT-20 FRAME MEMORY
IC3308
CXD8063-105Q
5V-2
TO P5
FMBD-RB
FMAC-RB
TO P7
MUTE TO P6
VBF-CTL TO P5
BCS TO P6
SCK TO P6
SBTX TO P6
SBRX TO P6
ROM-DT TO P5
BDA TO P6
VDOE TO P5
B-SS1628<U/C>-BB.-P4
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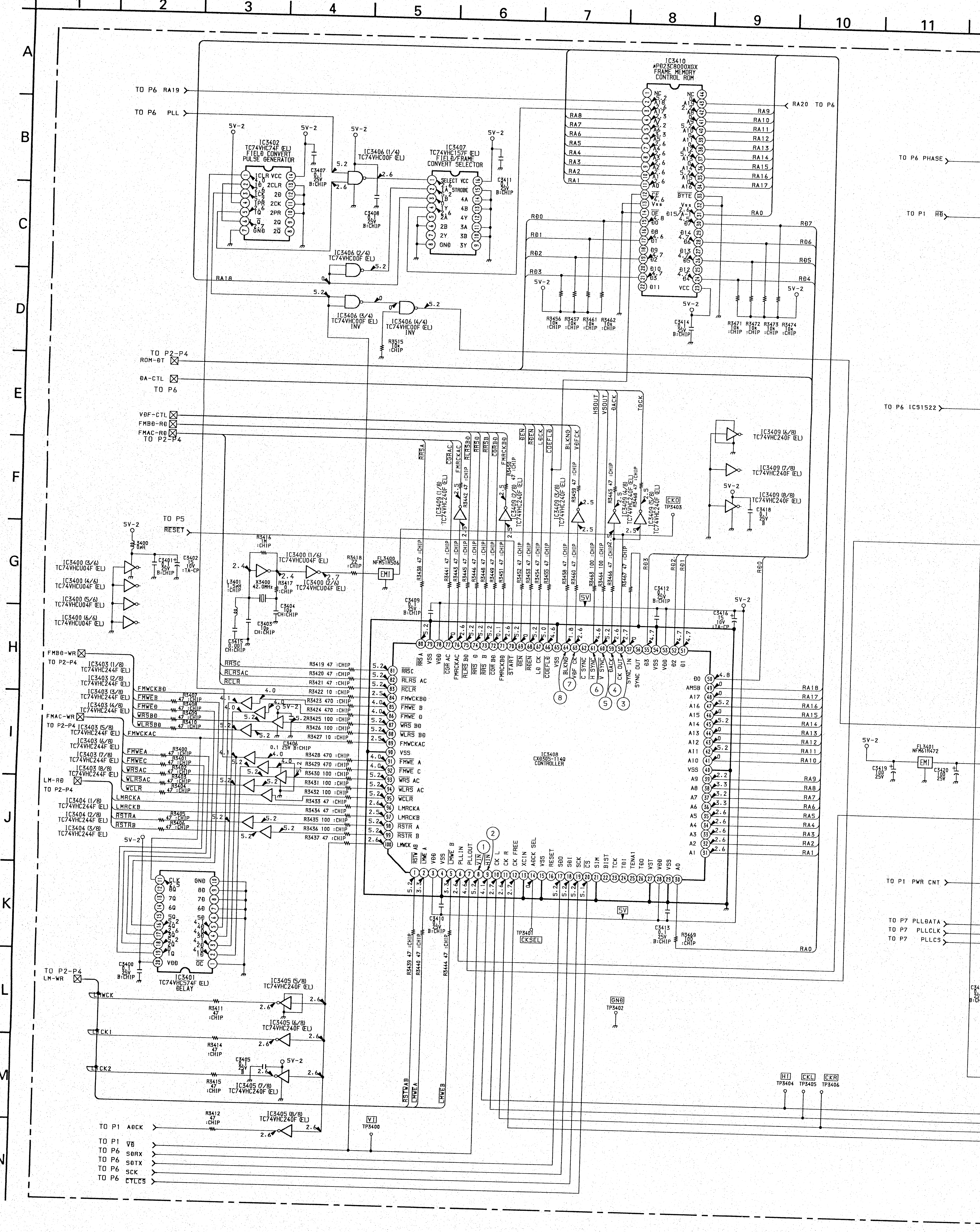
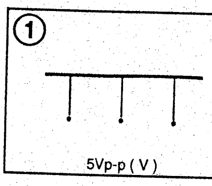
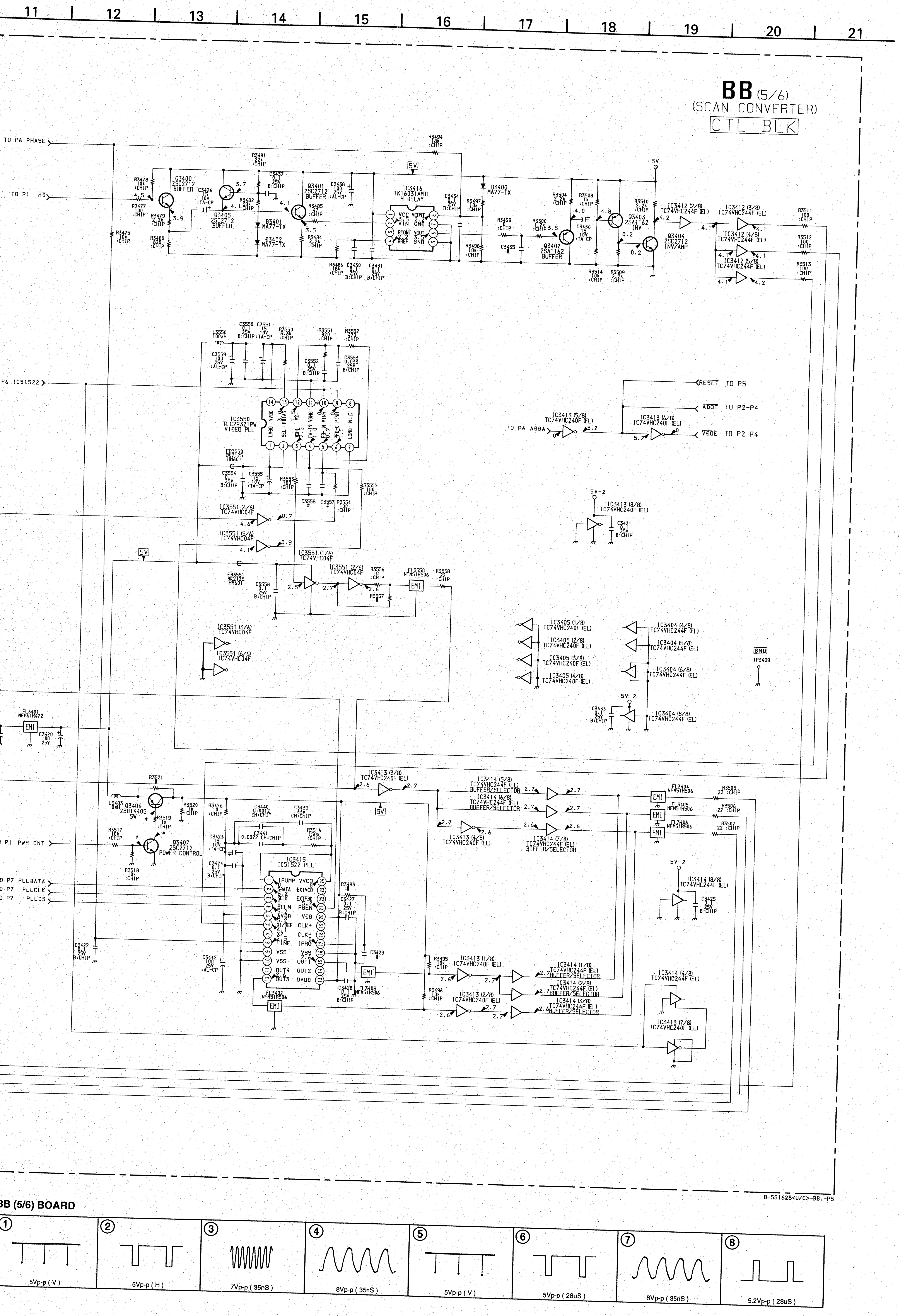
BB (4/6)
(SCAN CONVERTER)
B-MEM BLK


IC3410 μPD23C8000XGX FRAME MEMORY CONTROL ROM
IC3402 TC74VHC74F (EL) FIELD CONVERT PULSE GENERATOR
IC3406 (1/4) TC74VHC00F (EL)
IC3407 TC74VHC157F (EL) FIELD/FRAME CONVERT SELECTOR
IC3406 (2/4) TC74VHC00F (EL)
IC3406 (3/4) TC74VHC00F (EL) INV
IC3406 (4/4) TC74VHC00F (EL) INV
IC3408 CXD8305-114Q CONTROLLER
IC3409 (1/8) TC74VHC240F (EL)
IC3409 (2/8) TC74VHC240F (EL)
IC3409 (3/8) TC74VHC240F (EL)
IC3409 (4/8) TC74VHC240F (EL)
IC3409 (5/8) TC74VHC240F (EL)
IC3409 (6/8) TC74VHC240F (EL)
IC3409 (7/8) TC74VHC240F (EL)
IC3409 (8/8) TC74VHC240F (EL)
IC3400 (1/6) TC74VHCU04F (EL)
IC3400 (2/6) TC74VHCU04F (EL)
IC3400 (3/6) TC74VHCU04F (EL)
IC3400 (4/6) TC74VHCU04F (EL)
IC3400 (5/6) TC74VHCU04F (EL)
IC3400 (6/6) TC74VHCU04F (EL)
IC3403 (1/8) TC74VHC244F (EL)
IC3403 (2/8) TC74VHC244F (EL)
IC3403 (3/8) TC74VHC244F (EL)
IC3403 (4/8) TC74VHC244F (EL)
IC3403 (5/8) TC74VHC244F (EL)
IC3403 (6/8) TC74VHC244F (EL)
IC3403 (7/8) TC74VHC244F (EL)
IC3403 (8/8) TC74VHC244F (EL)
IC3404 (1/8) TC74VHC244F (EL)
IC3404 (2/8) TC74VHC244F (EL)
IC3404 (3/8) TC74VHC244F (EL)
IC3401 TC74VHC574F (EL) DELAY
IC3405 (5/8) TC74VHC240F (EL)
IC3405 (6/8) TC74VHC240F (EL)
IC3405 (7/8) TC74VHC240F (EL)
IC3405 (8/8) TC74VHC240F (EL)
TO P6 RA19
TO P6 PLL
RA20 TO P6
TO P6 PHASE
TO P1 HD
TO P6 ICS1522
TO P2-P4 ROM-OT
DA-CTL TO P6
VDF-CTL
FMBD-RD
FMAC-RD TO P2-P4
TO P5 RESET
FMBD-WR TO P2-P4
FMAC-WR TO P2-P4
LM-RD TO P2-P4
TO P2-P4 LM-WR
TO P1 PWR CNT
TO P7 PLLDATA
TO P7 PLLCLK
TO P7 PLLCS
TO P1 ADCK
TO P1 VD
TO P6 SDRX
TO P6 SDTX
TO P6 SCK
TO P6 CTLCS
FL3400 NFM61R506
FL3401 NFM61R472
X3400 42.0MHz
L3400 0AH
L3401 1.5μH
TP3400 VI
TP3401 CKSEL
TP3402 GND
TP3403 CKO
TP3404 HI
TP3405 CKL
TP3406 CKR

BB (5/6) BOARD


①
5Vp-p(V)


11
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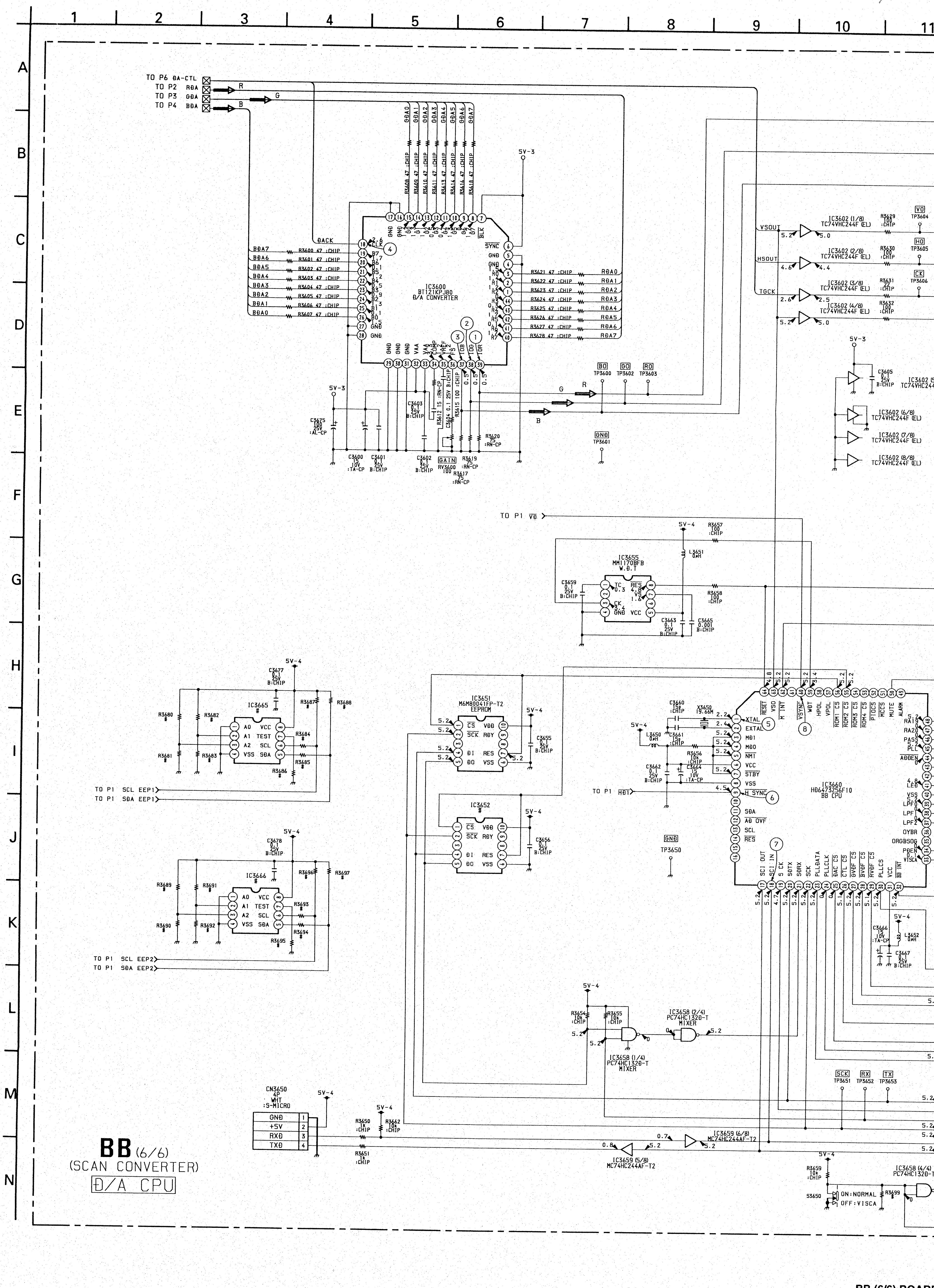
BB (5/6)
(SCAN CONVERTER)
CTL BLK
TO P6 PHASE
TO P1 HD
P6 ICS1522
P1 PWR CNT
P7 PLLDATA
P7 PLLCLK
P7 PLLCS
Q3400 2SC2712 BUFFER
Q3405 2SC2712 BUFFER
Q3401 2SC2712 BUFFER
D3401 MA77-TX
D3402 MA77-TX
D3400 MA77-TX
IC3416 TK16031AMTL H DELAY
Q3402 2SA1162 BUFFER
Q3403 2SA1162 INV
Q3404 2SC2712 INV/AMP
IC3412 TC74VHC244F (EL)
IC3550 TLC2932IPW VIDEO PLL
IC3551 TC74VHC04F
RESET TO P5
ADOE TO P2-P4
VDOE TO P2-P4
TO P6 ADDA
IC3413 TC74VHC240F (EL)
IC3405 TC74VHC240F (EL)
IC3404 TC74VHC244F (EL)
GND
TP3409
FL3401 NFM61R472
Q3406 2SB1440S SW
Q3407 2SC2712 POWER CONTROL
IC3415 ICS1522 PLL
IC3414 TC74VHC244F (EL) BUFFER/SELECTOR
FL3404 NFM51R506
FL3405 NFM51R506
FL3406 NFM51R506
FL3402 NFM51R506
FL3403 NFM51R506
FL3550 NFM51R506
5V
5V-2
B-SS1628<U/C>-BB.-P5
BB (5/6) BOARD
① 5Vp-p (V)
② 5Vp-p (H)
③ 7Vp-p (35nS)
④ 8Vp-p (35nS)
⑤ 5Vp-p (V)
⑥ 5Vp-p (28uS)
⑦ 8Vp-p (35nS)
⑧ 5.2Vp-p (28uS)

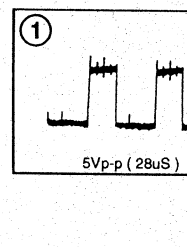
Schematic diagram

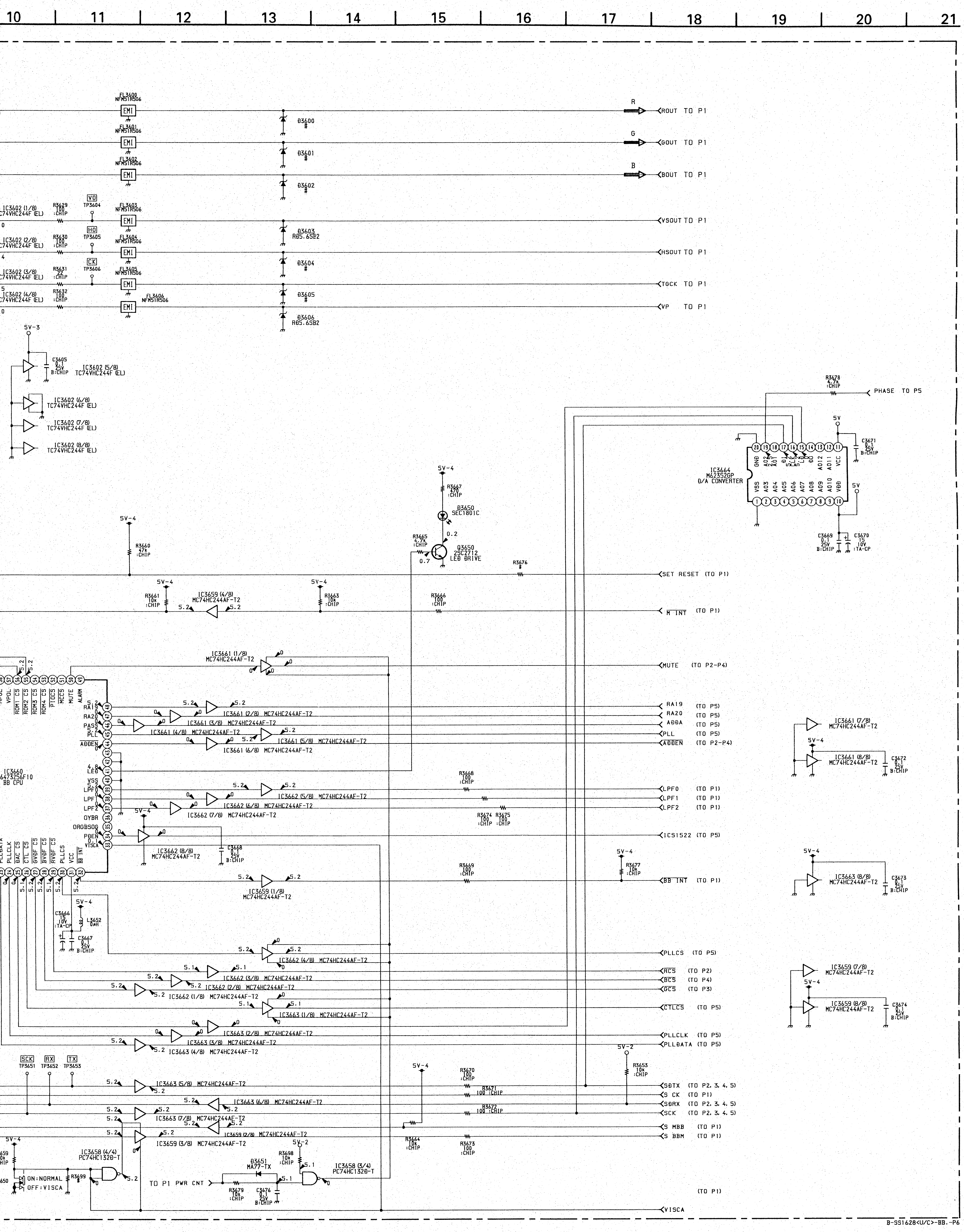
← BB(6/5) board


TO P6 ÐA-CTL
TO P2 RÐA
TO P3 GÐA
TO P4 BÐA
IC3600 BT121KPJ80 D/A CONVERTER
IC3602 TC74VHC244F (EL)
VSOUT
HSOUT
TGCK
IC3655 MM1170BFB W.D.T
IC3665
IC3666
IC3651 M6M80041FP-T2 EEPROM
IC3652
IC3660 HD6473256F10 BB CPU
IC3658 PC74HC132D-T MIXER
IC3659 MC74HC244AF-T2
CN3650 4P WHT :S-MICRO
GND
+5V
RXD
TXD
TO P1 SCL EEP1
TO P1 SDA EEP1
TO P1 SCL EEP2
TO P1 SDA EEP2
TO P1 VD
TO P1 HDI
S3650 ON:NORMAL OFF:VISCA
5V-3
5V-4

BB (6/6)
(SCAN CONVERTER)
D/A CPU

BB (6/6) BOAR

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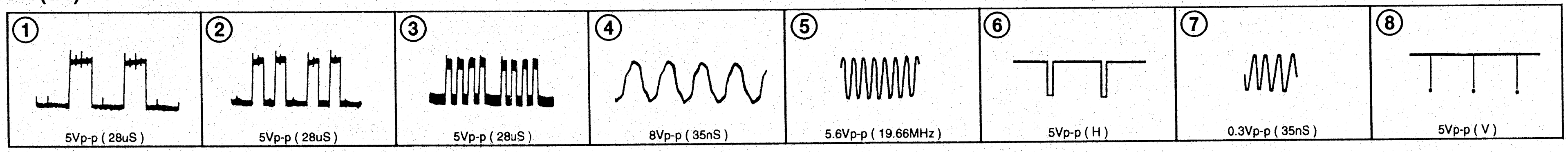
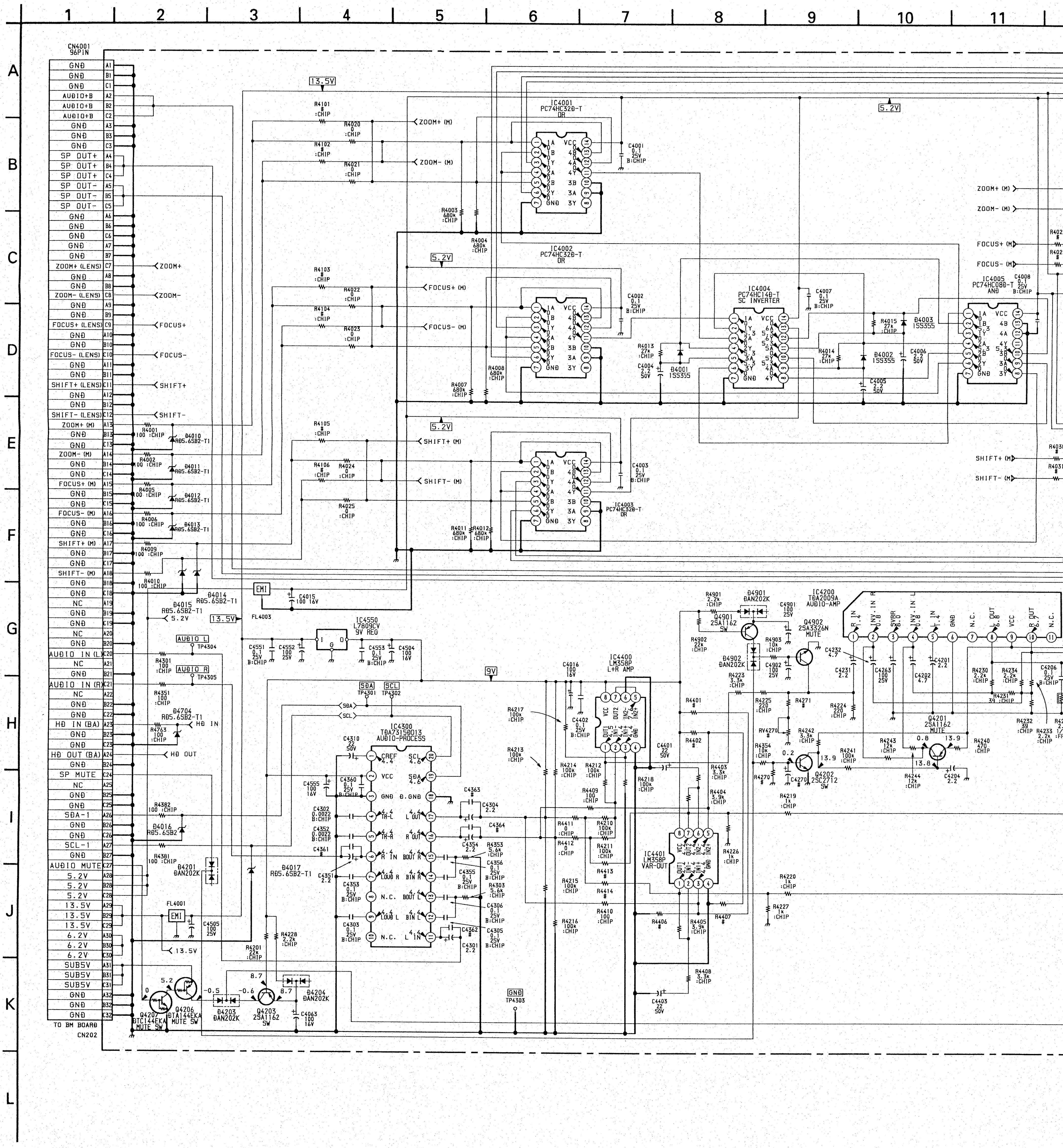
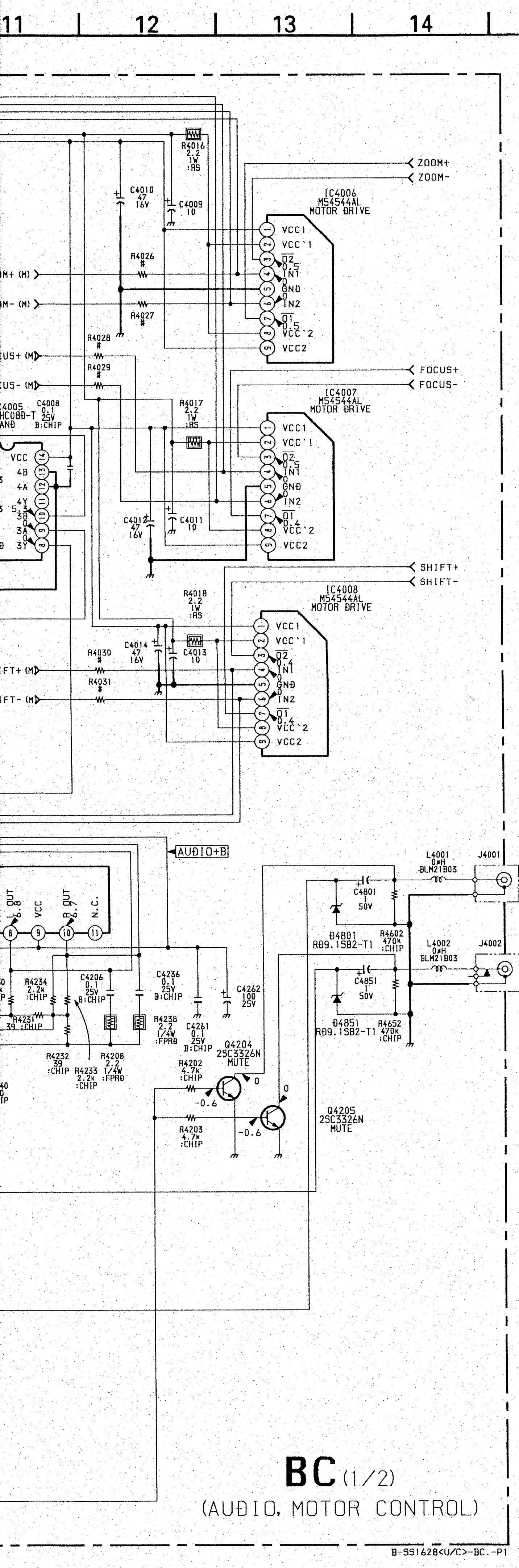
FL3600 NFM51R506
FL3601 NFM51R506
FL3602 NFM51R506
FL3603 NFM51R506
FL3604 NFM51R506
FL3605 NFM51R506
FL3606 NFM51R506
EMI
D3600
D3601
D3602
D3603 RD5.6SB2
D3604
D3605
D3606 RD5.6SB2
R
G
B
ROUT TO P1
GOUT TO P1
BOUT TO P1
VSOUT TO P1
HSOUT TO P1
TGCK TO P1
VP TO P1
IC3602 (1/8) TC74VHC244F (EL)
IC3602 (2/8) TC74VHC244F (EL)
IC3602 (3/8) TC74VHC244F (EL)
IC3602 (4/8) TC74VHC244F (EL)
IC3602 (5/8) TC74VHC244F (EL)
IC3602 (6/8) TC74VHC244F (EL)
IC3602 (7/8) TC74VHC244F (EL)
IC3602 (8/8) TC74VHC244F (EL)
VD TP3604
HD TP3605
CK TP3606
5V-3
C3605
PHASE TO P5
R3678 4.7k :CHIP
IC3664 M62352GP D/A CONVERTER
VSS A03 A04 A05 A06 A07 A08 A09 A010 VDD
GND A02 A01 VCC A011 A012
C3669
C3670
C3671
5V
5V-4
R3667 470 :CHIP
D3650 SEC1801C
Q3650 2SC2712 LED DRIVE
R3665 4.7k :CHIP
R3660 47k :CHIP
R3676
R3661 10k :CHIP
R3663 10k :CHIP
R3666 100 :CHIP
IC3659 (4/8) MC74HC244AF-T2
SET RESET (TO P1)
M INT (TO P1)
IC3661 (1/8) MC74HC244AF-T2
MUTE (TO P2-P4)
RA19 (TO P5)
RA20 (TO P5)
ADDA (TO P5)
PLL (TO P5)
ADDEN (TO P2-P4)
IC3661 (2/8) MC74HC244AF-T2
IC3661 (3/8) MC74HC244AF-T2
IC3661 (4/8) MC74HC244AF-T2
IC3661 (5/8) MC74HC244AF-T2
IC3661 (6/8) MC74HC244AF-T2
IC3661 (7/8) MC74HC244AF-T2
IC3661 (8/8) MC74HC244AF-T2
IC3660 BB CPU
ROM1 CS ROM2 CS ROM3 CS ROM4 CS PIOCS MCCS MUTE ALARM
RA19 RA20 PASS PLL ADDEN LED VSS LPF0 LPF1 LPF2 OYBR ORGBSOG PDEN VISCA
PLLDATA PLLCLK DAC CS CTL CS GVDF CS BVDF CS RVDF CS PLLCS VCC BB INT
R3668 100 :CHIP
R3674 100 :CHIP
R3675 100 :CHIP
LPF0 (TO P1)
LPF1 (TO P1)
LPF2 (TO P1)
ICS1522 (TO P5)
IC3662 (5/8) MC74HC244AF-T2
IC3662 (6/8) MC74HC244AF-T2
IC3662 (7/8) MC74HC244AF-T2
IC3662 (8/8) MC74HC244AF-T2
C3668
R3669 100 :CHIP
R3677 10k :CHIP
BB INT (TO P1)
IC3659 (1/8) MC74HC244AF-T2
IC3663 (8/8) MC74HC244AF-T2
C3673
C3672
C3666
L3652
C3667
PLLCS (TO P5)
RCS (TO P2)
BCS (TO P4)
GCS (TO P3)
CTLCS (TO P5)
PLLCLK (TO P5)
PLLDATA (TO P5)
IC3662 (4/8) MC74HC244AF-T2
IC3662 (3/8) MC74HC244AF-T2
IC3662 (2/8) MC74HC244AF-T2
IC3662 (1/8) MC74HC244AF-T2
IC3663 (1/8) MC74HC244AF-T2
IC3663 (2/8) MC74HC244AF-T2
IC3663 (3/8) MC74HC244AF-T2
IC3663 (4/8) MC74HC244AF-T2
IC3659 (7/8) MC74HC244AF-T2
IC3659 (8/8) MC74HC244AF-T2
C3674
SCK TP3651
RX TP3652
TX TP3653
5V-2
R3653 10k :CHIP
R3670 100 :CHIP
R3671 100 :CHIP
R3672 100 :CHIP
R3664 :CHIP
R3673 100 :CHIP
SDTX (TO P2, 3, 4, 5)
S CK (TO P1)
SDRX (TO P2, 3, 4, 5)
SCK (TO P2, 3, 4, 5)
S MBB (TO P1)
S BBM (TO P1)
IC3663 (5/8) MC74HC244AF-T2
IC3663 (6/8) MC74HC244AF-T2
IC3663 (7/8) MC74HC244AF-T2
IC3659 (2/8) MC74HC244AF-T2
IC3659 (3/8) MC74HC244AF-T2
IC3658 (4/4) PC74HC132D-T
IC3658 (3/4) PC74HC132D-T
D3651 MA77-TX
R3698 10k :CHIP
R3699
R3679 10k :CHIP
C3676
ON:NORMAL
OFF:VISCA
TO P1 PWR CNT
(TO P1)
VISCA
B-SS1628<U/C>-BB.-P6

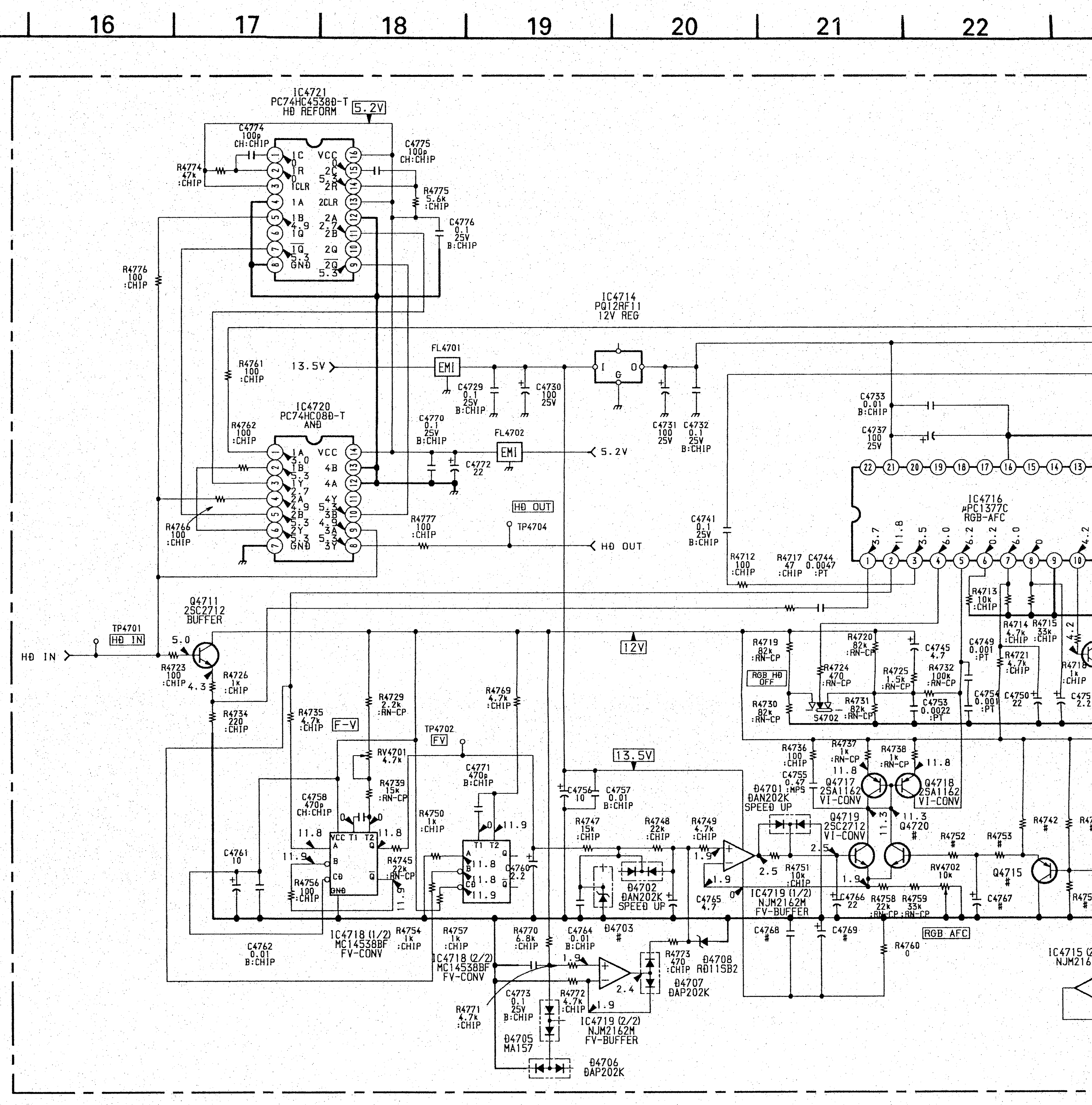
BB (6/6) BOARD


①
5Vp-p (28uS)
②
5Vp-p (28uS)
③
5Vp-p (28uS)
④
8Vp-p (35nS)
⑤
5.6Vp-p (19.66MHz)
⑥
5Vp-p (H)
⑦
0.3Vp-p (35nS)
⑧
5Vp-p (V)



CN4001
96PIN
GND
AUDIO+B
SP OUT+
SP OUT-
ZOOM+ (LENS)
ZOOM- (LENS)
FOCUS+ (LENS)
FOCUS- (LENS)
SHIFT+ (LENS)
SHIFT- (LENS)
ZOOM+ (M)
ZOOM- (M)
FOCUS+ (M)
FOCUS- (M)
SHIFT+ (M)
SHIFT- (M)
NC
AUDIO IN (L)
AUDIO IN (R)
HD IN (BA)
HD OUT (BA)
SP MUTE
SDA-1
SCL-1
AUDIO MUTE
5.2V
13.5V
6.2V
SUB5V
TO BM BOARD
CN202
IC4001
PC74HC32D-T
OR
IC4002
PC74HC32D-T
OR
IC4003
PC74HC32D-T
OR
IC4004
PC74HC14D-T
SC INVERTER
IC4005
PC74HC08D-T
AND
IC4550
L7809CV
9V REG
IC4300
TDA7315D013
AUDIO-PROCESS
IC4400
LM358P
L+R AMP
IC4401
LM358P
VAR-OUT
IC4200
TDA2009A
AUDIO-AMP
Q4901
2SA1162
SW
Q4902
2SA3326N
MUTE
Q4201
2SA1162
MUTE
Q4202
2SC2712
SW
Q4203
2SA1162
SW
Q4206
DTA144EKA
MUTE SW
Q4207
DTC144EKA
MUTE SW
D4001
1SS355
D4002
1SS355
D4003
1SS355
D4010
RD5.6SB2-T1
D4011
RD5.6SB2-T1
D4012
RD5.6SB2-T1
D4013
RD5.6SB2-T1
D4014
RD5.6SB2-T1
D4015
RD5.6SB2-T1
D4016
RD5.6SB2
D4017
RD5.6SB2-T1
D4704
RD5.6SB2-T1
D4201
DAN202K
D4203
DAN202K
D4204
DAN202K
D4901
DAN202K
D4902
DAN202K
FL4001
FL4003
EMI
13.5V
5.2V
9V
AUDIO L
TP4304
AUDIO R
TP4305
SDA
TP4301
SCL
TP4302
GND
TP4303
ZOOM+ (M)
ZOOM- (M)
FOCUS+ (M)
FOCUS- (M)
SHIFT+ (M)
SHIFT- (M)
HD IN
HD OUT


11
12
13
14
15
ZOOM+
ZOOM-
IC4006 M54544AL MOTOR DRIVE
IC4007 M54544AL MOTOR DRIVE
IC4008 M54544AL MOTOR DRIVE
FOCUS+
FOCUS-
SHIFT+
SHIFT-
AUDIO+B
J4001
J4002
L
R
Q4204 2SC3326N MUTE
Q4205 2SC3326N MUTE
D4801 RD9.1SB2-T1
D4851 RD9.1SB2-T1
L OUT
VCC
R OUT
N.C.
BC (1/2)
(AUDIO, MOTOR CONTROL)
B-SS1628<U/C>-BC.-P1


16
17
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19
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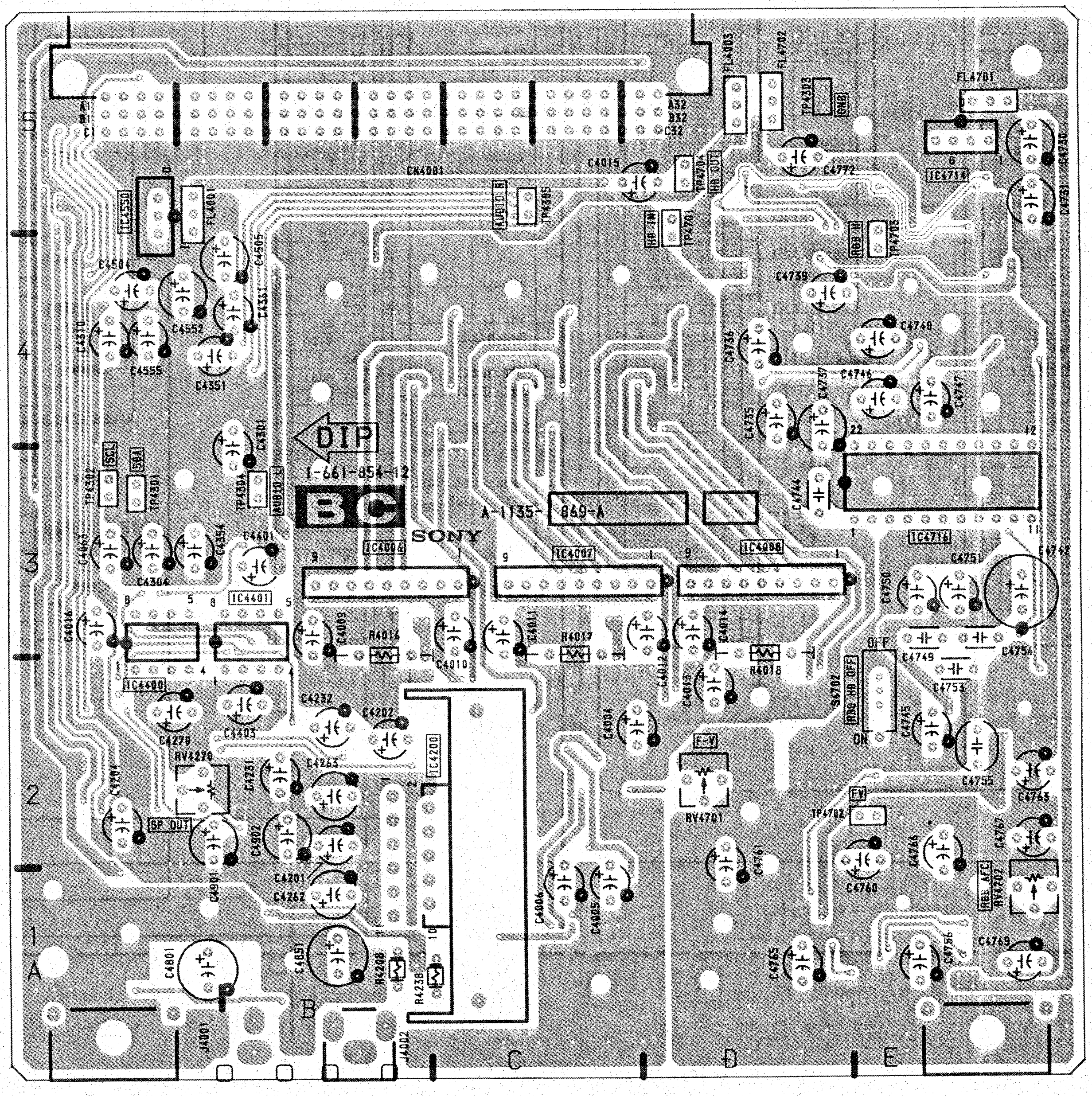
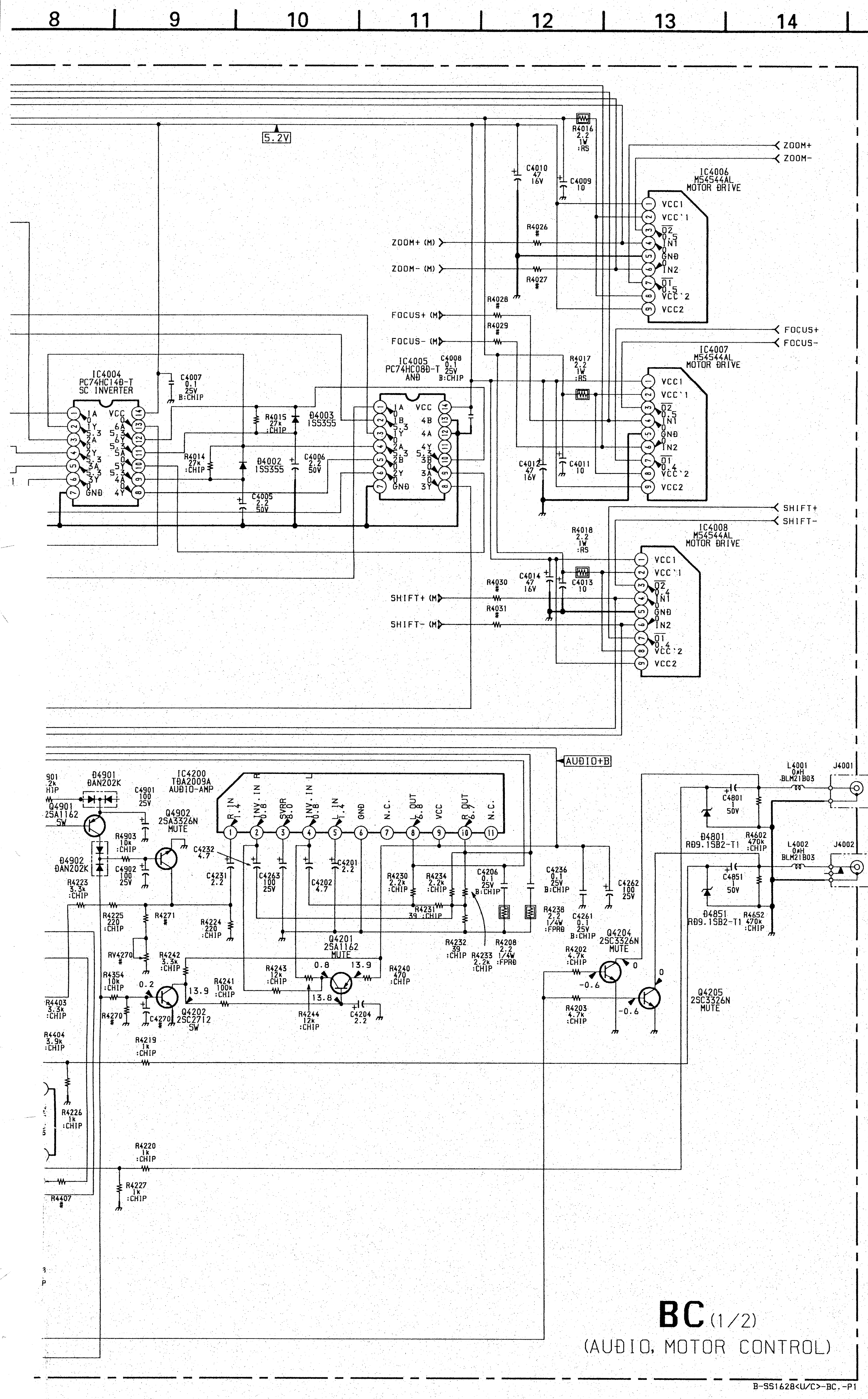
22
IC4721 PC74HC4538D-T HD REFORM
5.2V
IC4714 PQ12RF11 12V REG
IC4720 PC74HC08D-T AND
13.5V
5.2V
HD OUT
HD IN
TP4701
Q4711 2SC2712 BUFFER
IC4716 μPC1377C RGB-AFC
IC4718 (1/2) MC14538BF FV-CONV
IC4718 (2/2) MC14538BF FV-CONV
IC4719 (1/2) NJM2162M FV-BUFFER
IC4719 (2/2) NJM2162M FV-BUFFER
Q4717 2SA1162 VI-CONV
Q4718 2SA1162 VI-CONV
Q4719 2SC2712 VI-CONV
Q4720
Q4715
D4701 DAN202K SPEED UP
D4702 DAN202K SPEED UP
D4705 MA157
D4706 DAP202K
D4707 DAP202K
D4708 RD11SB2
RGB HD OFF
RGB AFC
F-V
FV
12V
13.5V
IC4715 NJM216

BC [AUDIO, MOTOR CONTROL, AFC]

– **BC BOARD** – <A Side>

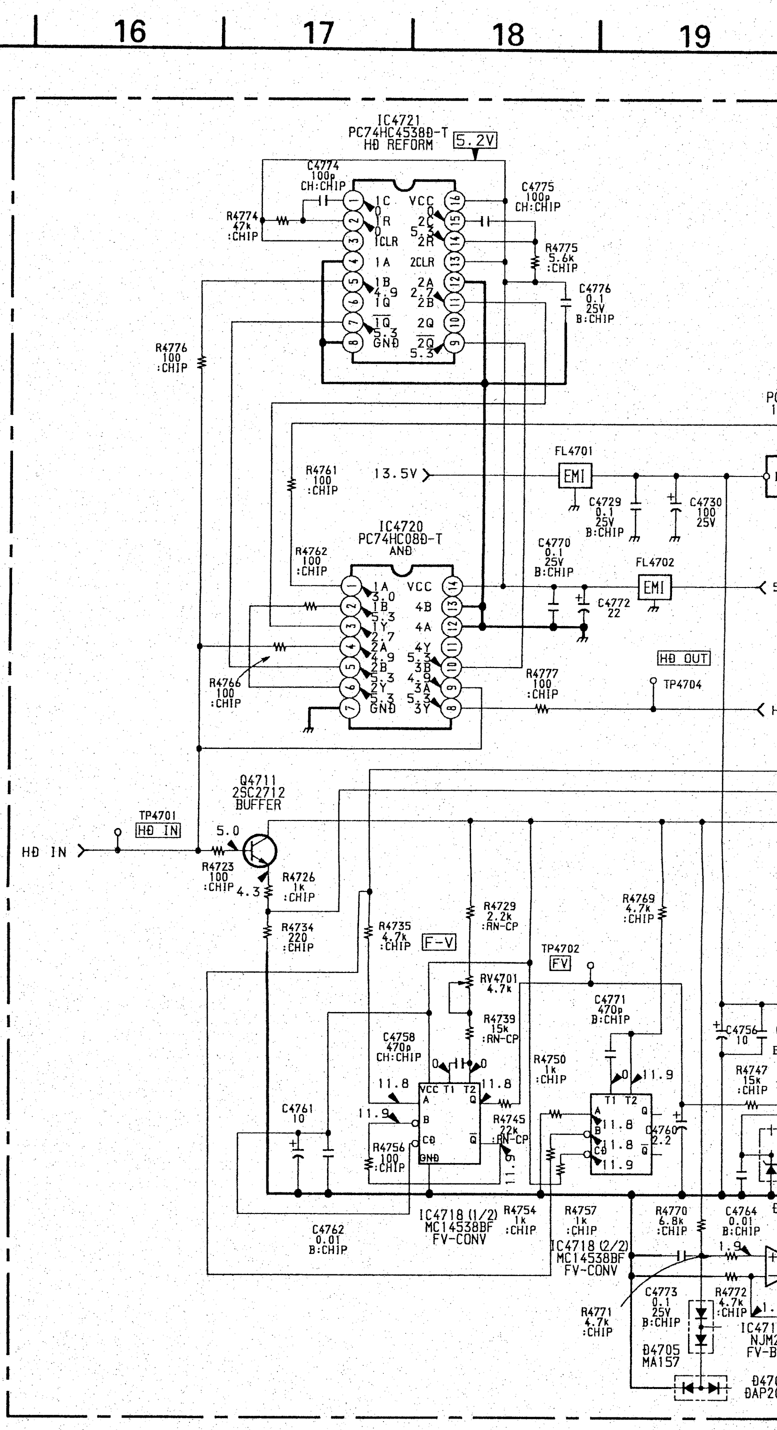

DIP
1-661-854-12
BC
SONY
A-1135-869-A
IC4550
IC4401
IC4400
IC4200
IC4006
IC4007
IC4008
IC4716
IC4714
CN4001
J4001
J4002
AUDIO L
AUDIO R
SP OUT
HD IN
HD OUT
RGB HD OFF
RGB AFC
F-V
FV
GND
S4702
RV4270
RV4701
RV4702
A
B
C
D
E
1
2
3
4
5

<


8
9
10
11
12
13
14
15
IC4004 PC74HC14B-T SC INVERTER
IC4005 PC74HC08B-T AND
IC4006 M54544AL MOTOR DRIVE
IC4007 M54544AL MOTOR DRIVE
IC4008 M54544AL MOTOR DRIVE
IC4200 TDA2009A AUDIO-AMP
5.2V
ZOOM+
ZOOM-
ZOOM+ (M)
ZOOM- (M)
FOCUS+
FOCUS-
FOCUS+ (M)
FOCUS- (M)
SHIFT+
SHIFT-
SHIFT+ (M)
SHIFT- (M)
AUDIO+B
R IN
INV. IN R
SVRR
INV. IN L
L IN
GND
N.C.
L OUT
VCC
R OUT
Q4201 2SA1162 MUTE
Q4202 2SC2712
Q4204 2SC3326N MUTE
Q4205 2SC3326N MUTE
Q4901 2SA1162
Q4902 2SA3326N MUTE
D4901 DAN202K
D4902 DAN202K
D4801 RD9.1SB2-T1
D4851 RD9.1SB2-T1
L4001 0μH BLM21B03
L4002 0μH BLM21B03
J4001
J4002
L
R

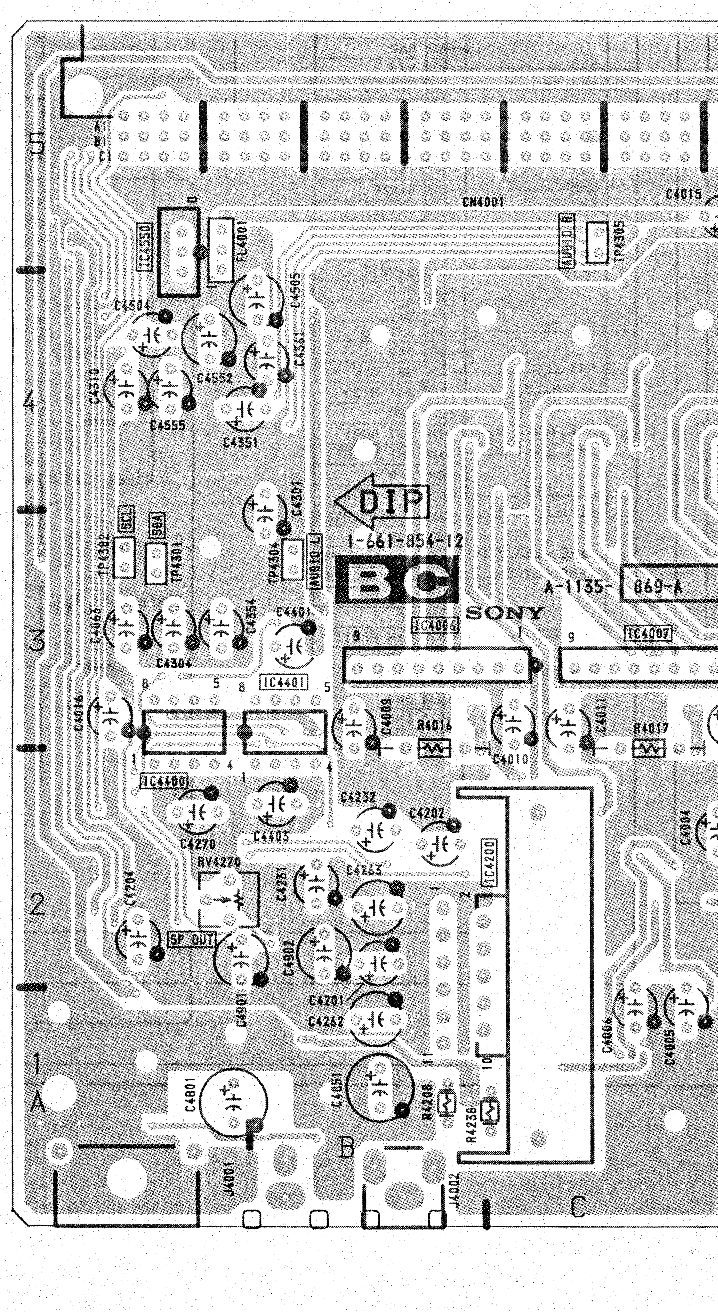
BC (1/2)
(AUDIO, MOTOR CONTROL)

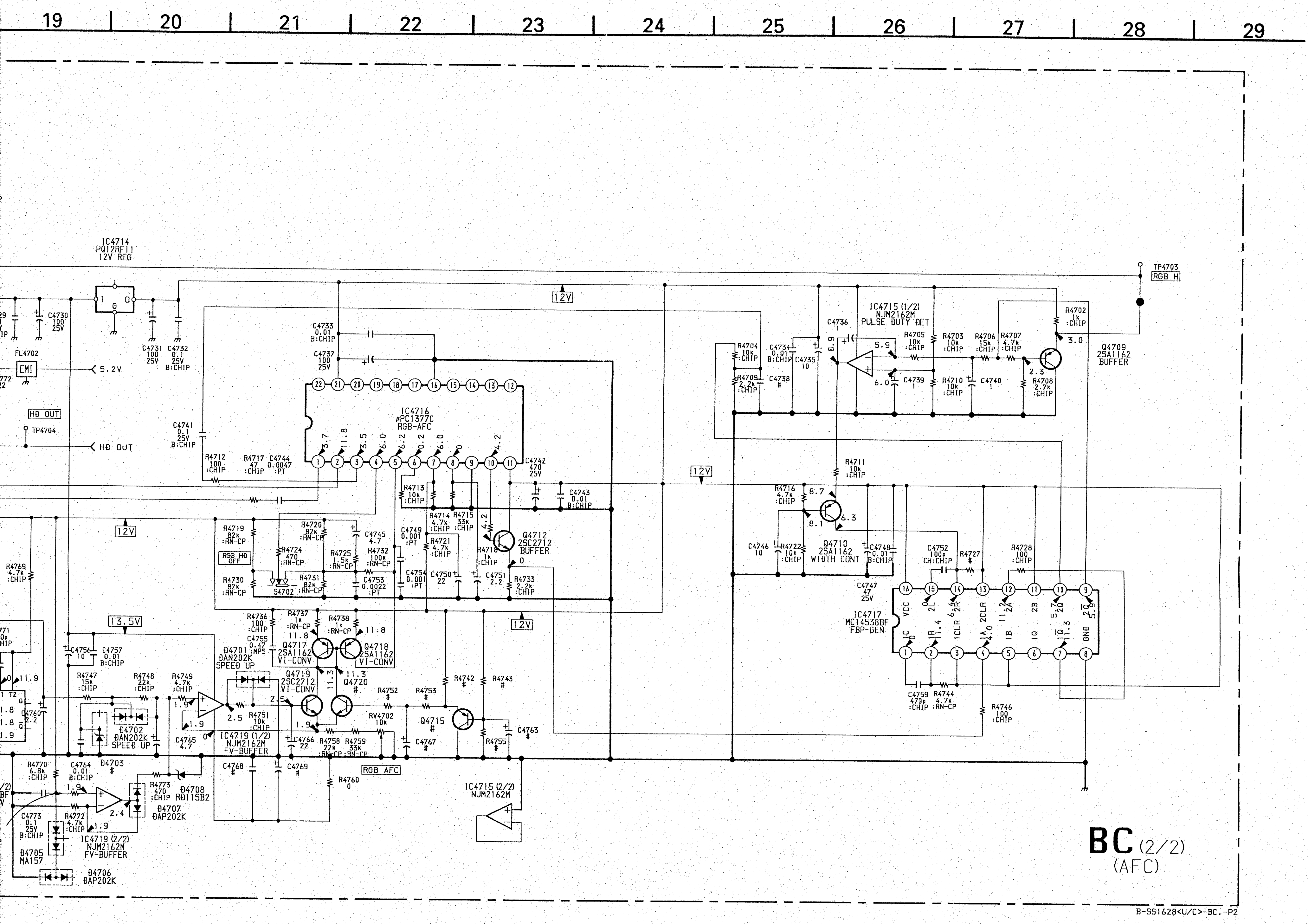
B-SS1628<U/C>-BC.-P1


16
17
18
19
IC4721 PC74HC4538B-T HD REFORM
5.2V
IC4720 PC74HC08B-T AND
13.5V
FL4701
FL4702
EMI
HD OUT
TP4704
HD IN
TP4701
Q4711 2SC2712 BUFFER
F-V
FV
TP4702
IC4718 (1/2) MC14538BF FV-CONV
IC4718 (2/2) MC14538BF FV-CONV
D4705 MA157

BC [AUDIO, MOTOR CONTROL, AFC]

– **BC BOARD** – <A Side>


DIP
1-661-854-12
BC
SONY
A-1135-869-A
CN4001
J4001
J4002
C4801
C4851
IC4200
IC4400
IC4401
IC4006
IC4007
IC4550
FL4001
SP OUT
AUDIO L
AUDIO R
TP4305
RV4270
A
B
C
1
2
3
4
5


19
20
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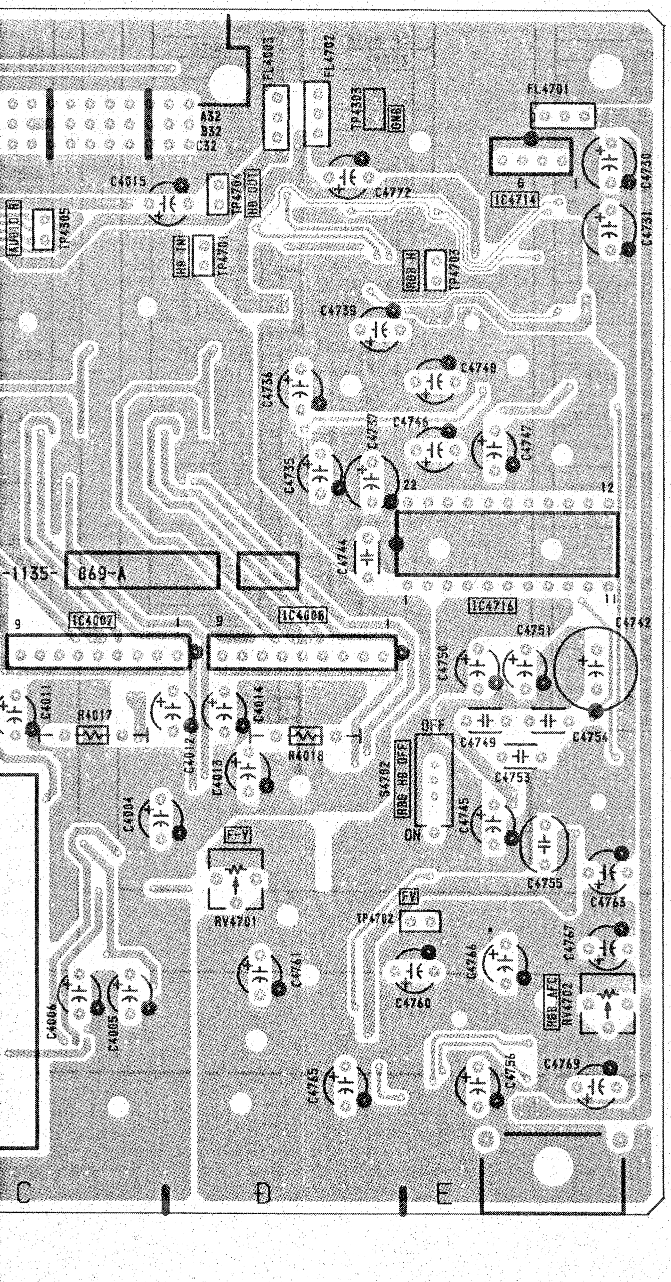
24
25
26
27
28
29
IC4714
PQ12RF11
12V REG
FL4702
EMI
5.2V
HD OUT
TP4704
IC4716
μPC1377C
RGB-AFC
IC4715 (1/2)
NJM2162M
PULSE DUTY DET
Q4709
2SA1162
BUFFER
TP4703
RGB H
Q4712
2SC2712
BUFFER
Q4710
2SA1162
WIDTH CONT
IC4717
MC14538BF
FBP-GEN
Q4717
2SA1162
VI-CONV
Q4718
2SA1162
VI-CONV
Q4719
2SC2712
VI-CONV
Q4720
Q4715
D4701
DAN202K
SPEED UP
D4702
DAN202K
SPEED UP
IC4719 (1/2)
NJM2162M
FV-BUFFER
IC4719 (2/2)
NJM2162M
FV-BUFFER
IC4715 (2/2)
NJM2162M
D4705
MA157
D4706
DAP202K
D4707
DAP202K
D4708
RB11SB2
RGB HD OFF
S4702
RGB AFC
RV4702
12V
13.5V

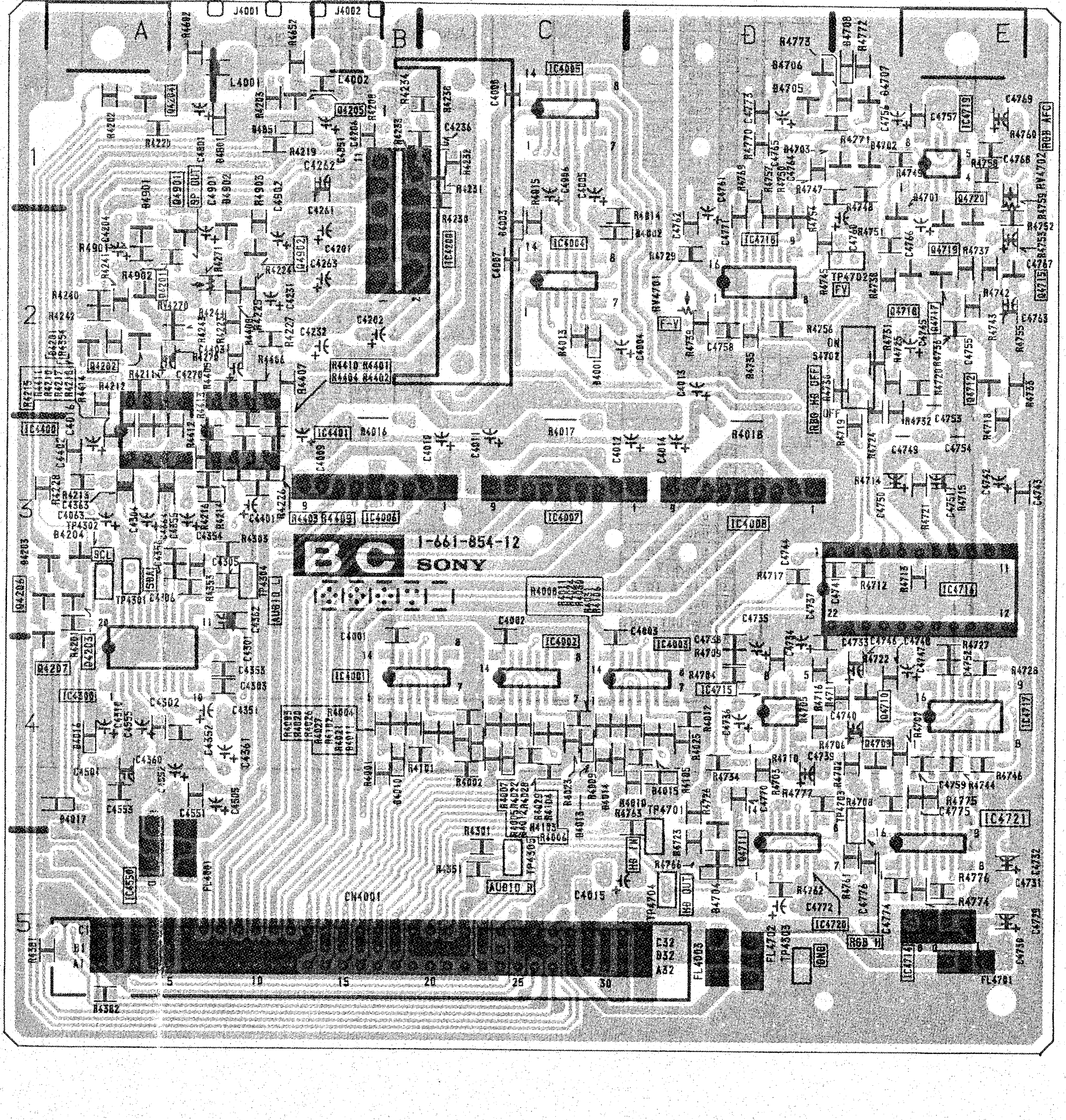
BC (2/2)
(AFC)

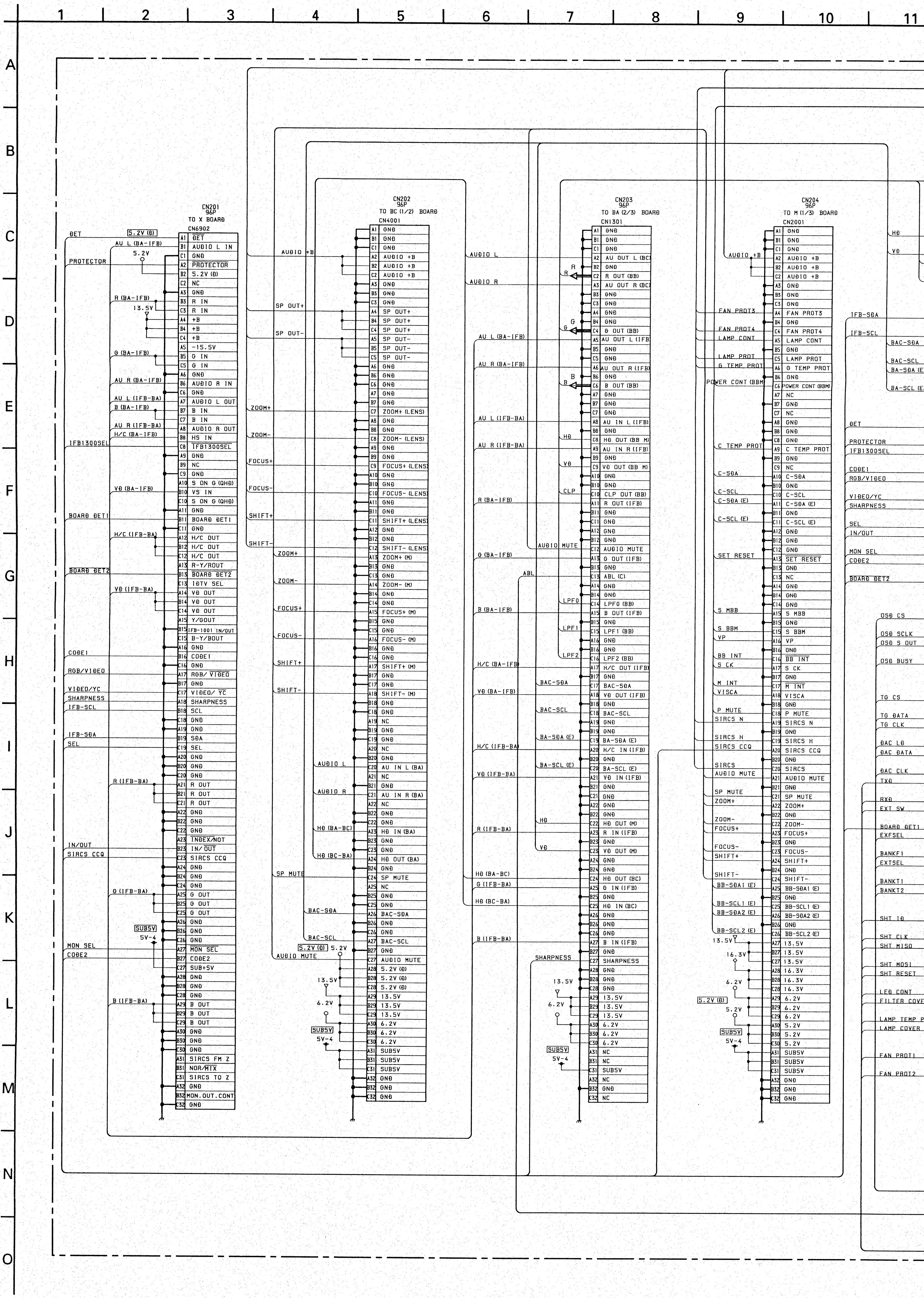
B-SS1628<U/C>-BC.-P2

ROL, AFC]


FL4703
FL4702
FL4701
IC4714
IC4716
IC4707
IC4708
1-1135-869-A
RGB HD OFF
RGB AFC
RV4702
RV4701
F-V
C
D
E

<B Side>


A
B
C
D
E
1
2
3
4
5
J4001
J4002
BC
SONY
1-661-854-12
CN4001
FL4003
FL4702
FL4701
IC4716
IC4717
IC4714
RGB H
HD OUT
HD IN
AUDIO R
AUDIO L
RGB HD OFF
RV4702
RGB AFC


1
2
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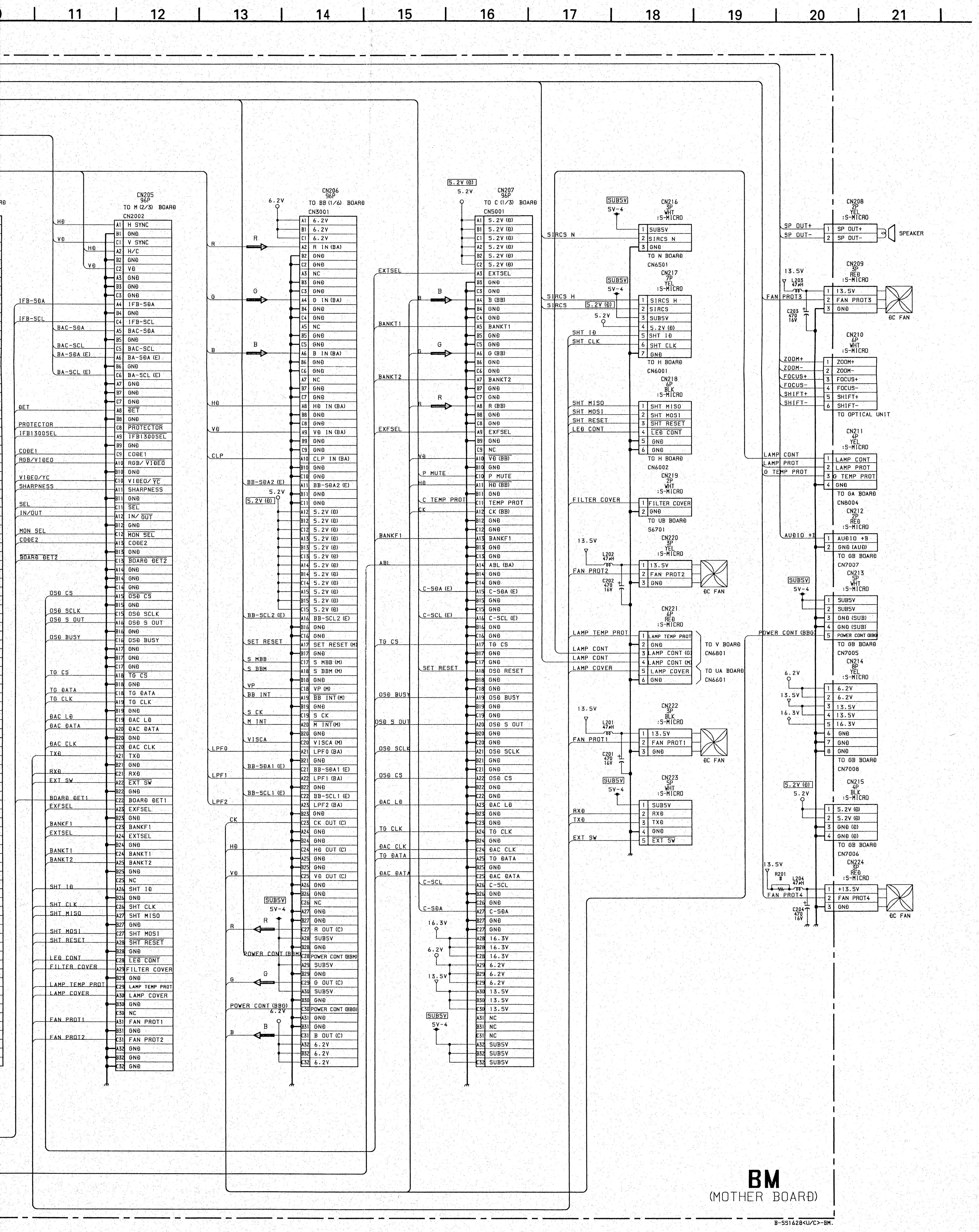
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN201
96P
TO X BOARD
CN6902
CN202
96P
TO BC (1/2) BOARD
CN4001
CN203
96P
TO BA (2/3) BOARD
CN1301
CN204
96P
TO M (1/3) BOARD
CN2001
DET
PROTECTOR
IFB1300SEL
BOARD DET1
BOARD DET2
CODE1
RGB/VIDEO
VIDEO/YC
SHARPNESS
IFB-SCL
IFB-SDA
SEL
IN/OUT
SIRCS CCQ
MON SEL
CODE2
AUDIO +B
SP OUT+
SP OUT-
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
SHIFT-
AUDIO L
AUDIO R
AUDIO MUTE
SUBSV
5V-4
5.2V (D)
13.5V
6.2V
16.3V
OSD CS
OSD SCLK
OSD S OUT
OSD BUSY
TG CS
TG DATA
TG CLK
DAC LD
DAC DATA
DAC CLK
TXD
RXD
EXT SW
BOARD DET1
EXFSEL
BANKF1
EXTSEL
BANKT1
BANKT2
SHT ID
SHT CLK
SHT MISO
SHT MOSI
SHT RESET
LED CONT
FILTER COVE
LAMP TEMP P
LAMP COVER
FAN PROT1
FAN PROT2

Schematic diagrams
BM, **N**, **UA**, **UB**, **V**, **X** boards ➡


11
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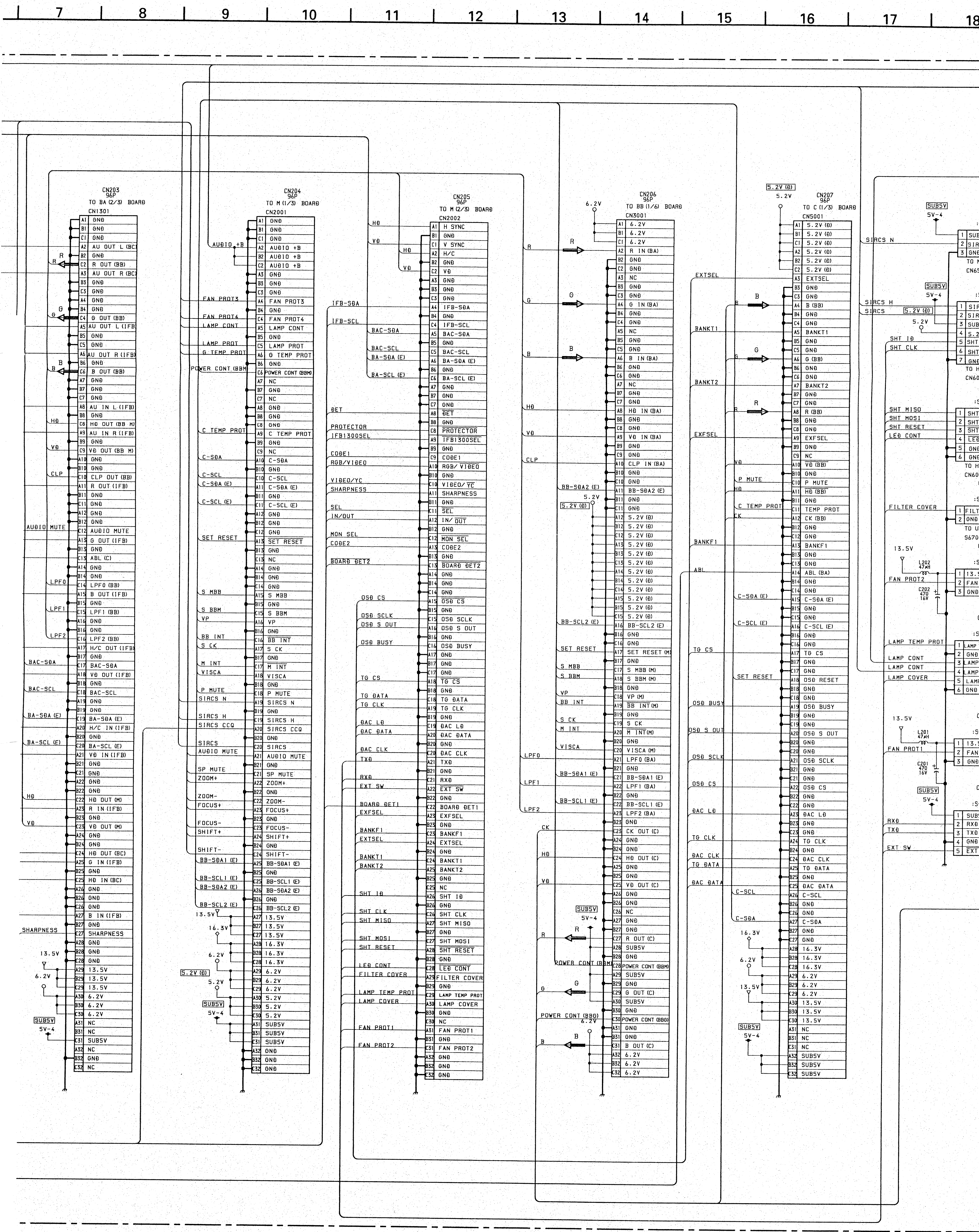
21
CN205 96P TO M (2/3) BOARD CN2002
A1 H SYNC
B1 GND
C1 V SYNC
A2 H/C
B2 GND
C2 VD
A3 GND
B3 GND
C3 GND
A4 IFB-SDA
B4 GND
C4 IFB-SCL
A5 BAC-SDA
B5 GND
C5 BAC-SCL
A6 BA-SDA (E)
B6 GND
C6 BA-SCL (E)
A7 GND
B7 GND
C7 GND
A8 DET
B8 GND
C8 PROTECTOR
A9 IFB1300SEL
B9 GND
C9 CODE1
A10 RGB/VIDEO
B10 GND
C10 VIDEO/YC
A11 SHARPNESS
B11 GND
C11 SEL
A12 IN/OUT
B12 GND
C12 MON SEL
A13 CODE2
B13 GND
C13 BOARD DET2
A14 GND
B14 GND
C14 GND
A15 OSD CS
B15 GND
C15 OSD SCLK
A16 OSD S OUT
B16 GND
C16 OSD BUSY
A17 GND
B17 GND
C17 GND
A18 TG CS
B18 GND
C18 TG DATA
A19 TG CLK
B19 GND
C19 DAC LD
A20 DAC DATA
B20 GND
C20 DAC CLK
A21 TXD
B21 GND
C21 RXD
A22 EXT SW
B22 GND
C22 BOARD DET1
A23 EXFSEL
B23 GND
C23 BANKF1
A24 EXTSEL
B24 GND
C24 BANKT1
A25 BANKT2
B25 GND
C25 NC
A26 SHT ID
B26 GND
C26 SHT CLK
A27 SHT MISO
B27 GND
C27 SHT MOSI
A28 SHT RESET
B28 GND
C28 LED CONT
A29 FILTER COVER
B29 GND
C29 LAMP TEMP PROT
A30 LAMP COVER
B30 GND
C30 NC
A31 FAN PROT1
B31 GND
C31 FAN PROT2
A32 GND
B32 GND
C32 GND
CN206 96P TO BB (1/6) BOARD CN3001
6.2V
A1 6.2V
B1 6.2V
C1 6.2V
A2 R IN (BA)
B2 GND
C2 GND
A3 NC
B3 GND
C3 GND
A4 G IN (BA)
B4 GND
C4 GND
A5 NC
B5 GND
C5 GND
A6 B IN (BA)
B6 GND
C6 GND
A7 NC
B7 GND
C7 GND
A8 HD IN (BA)
B8 GND
C8 GND
A9 VD IN (BA)
B9 GND
C9 GND
A10 CLP IN (BA)
B10 GND
C10 GND
A11 BB-SDA2 (E)
B11 GND
C11 GND
A12 5.2V (D)
B12 5.2V (D)
C12 5.2V (D)
A13 5.2V (D)
B13 5.2V (D)
C13 5.2V (D)
A14 5.2V (D)
B14 5.2V (D)
C14 5.2V (D)
A15 5.2V (D)
B15 5.2V (D)
C15 5.2V (D)
A16 BB-SCL2 (E)
B16 GND
C16 GND
A17 SET RESET (M)
B17 GND
C17 S MBB (M)
A18 S BBM (M)
B18 GND
C18 VP (M)
A19 BB INT (M)
B19 GND
C19 S CK
A20 M INT (M)
B20 GND
C20 VISCA (M)
A21 LPF0 (BA)
B21 GND
C21 BB-SDA1 (E)
A22 LPF1 (BA)
B22 GND
C22 BB-SCL1 (E)
A23 LPF2 (BA)
B23 GND
C23 CK OUT (C)
A24 GND
B24 GND
C24 HD OUT (C)
A25 GND
B25 GND
C25 VD OUT (C)
A26 GND
B26 GND
C26 NC
A27 GND
B27 GND
C27 R OUT (C)
A28 SUB5V
B28 GND
C28 POWER CONT (BBM)
A29 SUB5V
B29 GND
C29 G OUT (C)
A30 SUB5V
B30 GND
C30 POWER CONT (BBG)
A31 GND
B31 GND
C31 B OUT (C)
A32 6.2V
B32 6.2V
C32 6.2V
5.2V (D)
5.2V
CN207 96P TO C (1/3) BOARD CN5001
A1 5.2V (D)
B1 5.2V (D)
C1 5.2V (D)
A2 5.2V (D)
B2 5.2V (D)
C2 5.2V (D)
A3 EXTSEL
B3 GND
C3 GND
A4 B (BB)
B4 GND
C4 GND
A5 BANKT1
B5 GND
C5 GND
A6 G (BB)
B6 GND
C6 GND
A7 BANKT2
B7 GND
C7 GND
A8 R (BB)
B8 GND
C8 GND
A9 EXFSEL
B9 GND
C9 NC
A10 VD (BB)
B10 GND
C10 P MUTE
A11 HD (BB)
B11 GND
C11 TEMP PROT
A12 CK (BB)
B12 GND
C12 GND
A13 BANKF1
B13 GND
C13 GND
A14 ABL (BA)
B14 GND
C14 GND
A15 C-SDA (E)
B15 GND
C15 GND
A16 C-SCL (E)
B16 GND
C16 GND
A17 TG CS
B17 GND
C17 GND
A18 OSD RESET
B18 GND
C18 GND
A19 OSD BUSY
B19 GND
C19 GND
A20 OSD S OUT
B20 GND
C20 GND
A21 OSD SCLK
B21 GND
C21 GND
A22 OSD CS
B22 GND
C22 GND
A23 DAC LD
B23 GND
C23 GND
A24 TG CLK
B24 GND
C24 DAC CLK
A25 TG DATA
B25 GND
C25 DAC DATA
A26 C-SCL
B26 GND
C26 GND
A27 C-SDA
B27 GND
C27 GND
A28 16.3V
B28 16.3V
C28 16.3V
A29 6.2V
B29 6.2V
C29 6.2V
A30 13.5V
B30 13.5V
C30 13.5V
A31 NC
B31 NC
C31 NC
A32 SUB5V
B32 SUB5V
C32 SUB5V
16.3V
6.2V
13.5V
SUB5V
5V-4
CN216 3P WHT :S-MICRO
1 SUB5V
2 SIRCS N
3 GND
TO N BOARD CN6501
CN217 7P YEL :S-MICRO
1 SIRCS H
2 SIRCS
3 SUB5V
4 5.2V (D)
5 SHT ID
6 SHT CLK
7 GND
TO H BOARD CN6001
CN218 6P BLK :S-MICRO
1 SHT MISO
2 SHT MOSI
3 SHT RESET
4 LED CONT
5 GND
6 GND
TO H BOARD CN6002
CN219 2P WHT :S-MICRO
1 FILTER COVER
2 GND
TO UB BOARD S6701
CN220 3P YEL :S-MICRO
1 13.5V
2 FAN PROT2
3 GND
L202 47μH
C202 470 16V
DC FAN
CN221 6P RED :S-MICRO
1 LAMP TEMP PROT
2 GND
3 LAMP CONT (G)
4 LAMP CONT (M)
5 LAMP COVER
6 GND
TO V BOARD CN6801
TO UA BOARD CN6601
CN222 3P BLK :S-MICRO
1 13.5V
2 FAN PROT1
3 GND
L201 47μH
C201 470 16V
DC FAN
CN223 5P WHT :S-MICRO
1 SUB5V
2 RXD
3 TXD
4 GND
5 EXT SW
CN208 2P YEL :S-MICRO
1 SP OUT+
2 SP OUT-
SPEAKER
CN209 3P RED :S-MICRO
1 13.5V
2 FAN PROT3
3 GND
L203 47μH
C203 470 16V
DC FAN
CN210 6P WHT :S-MICRO
1 ZOOM+
2 ZOOM-
3 FOCUS+
4 FOCUS-
5 SHIFT+
6 SHIFT-
TO OPTICAL UNIT
CN211 4P YEL :S-MICRO
1 LAMP CONT
2 LAMP PROT
3 G TEMP PROT
4 GND
TO GA BOARD CN8004
CN212 2P RED :S-MICRO
1 AUDIO +B
2 GND (AUD)
TO GB BOARD CN7007
CN213 5P WHT :S-MICRO
1 SUB5V
2 SUB5V
3 GND (SUB)
4 GND (SUB)
5 POWER CONT (BBG)
TO GB BOARD CN7005
CN214 8P YEL :S-MICRO
1 6.2V
2 6.2V
3 13.5V
4 13.5V
5 16.3V
6 GND
7 GND
8 GND
TO GB BOARD CN7008
CN215 4P BLK :S-MICRO
1 5.2V (D)
2 5.2V (D)
3 GND (D)
4 GND (D)
TO GB BOARD CN7006
CN224 3P RED :S-MICRO
1 +13.5V
2 FAN PROT4
3 GND
R201
L204 47μH
C204 470 16V
DC FAN
13.5V
16.3V
6.2V
IFB-SDA
IFB-SCL
BAC-SDA
BAC-SCL
BA-SDA (E)
BA-SCL (E)
HD
VD
DET
PROTECTOR
IFB1300SEL
CODE1
RGB/VIDEO
VIDEO/YC
SHARPNESS
SEL
IN/OUT
MON SEL
CODE2
BOARD DET2
OSD CS
OSD SCLK
OSD S OUT
OSD BUSY
TG CS
TG DATA
TG CLK
DAC LD
DAC DATA
DAC CLK
TXD
RXD
EXT SW
BOARD DET1
EXFSEL
BANKF1
EXTSEL
BANKT1
BANKT2
SHT ID
SHT CLK
SHT MISO
SHT MOSI
SHT RESET
LED CONT
FILTER COVER
LAMP TEMP PROT
LAMP COVER
FAN PROT1
FAN PROT2
R
G
B
CLP
BB-SDA2 (E)
BB-SCL2 (E)
SET RESET
S MBB
S BBM
VP
BB INT
S CK
M INT
VISCA
BB-SDA1 (E)
BB-SCL1 (E)
LPF0
LPF1
LPF2
CK
POWER CONT (BBM)
POWER CONT (BBG)
ABL
C-SDA (E)
C-SCL (E)
P MUTE
C TEMP PROT
C-SCL
C-SDA
SIRCS N
SIRCS H
SIRCS
LAMP CONT
LAMP PROT
G TEMP PROT
AUDIO +B
FAN PROT3
FAN PROT4
SP OUT+
SP OUT-
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
SHIFT-

BM
(MOTHER BOARD)

B-SS1628<U/C>-BM.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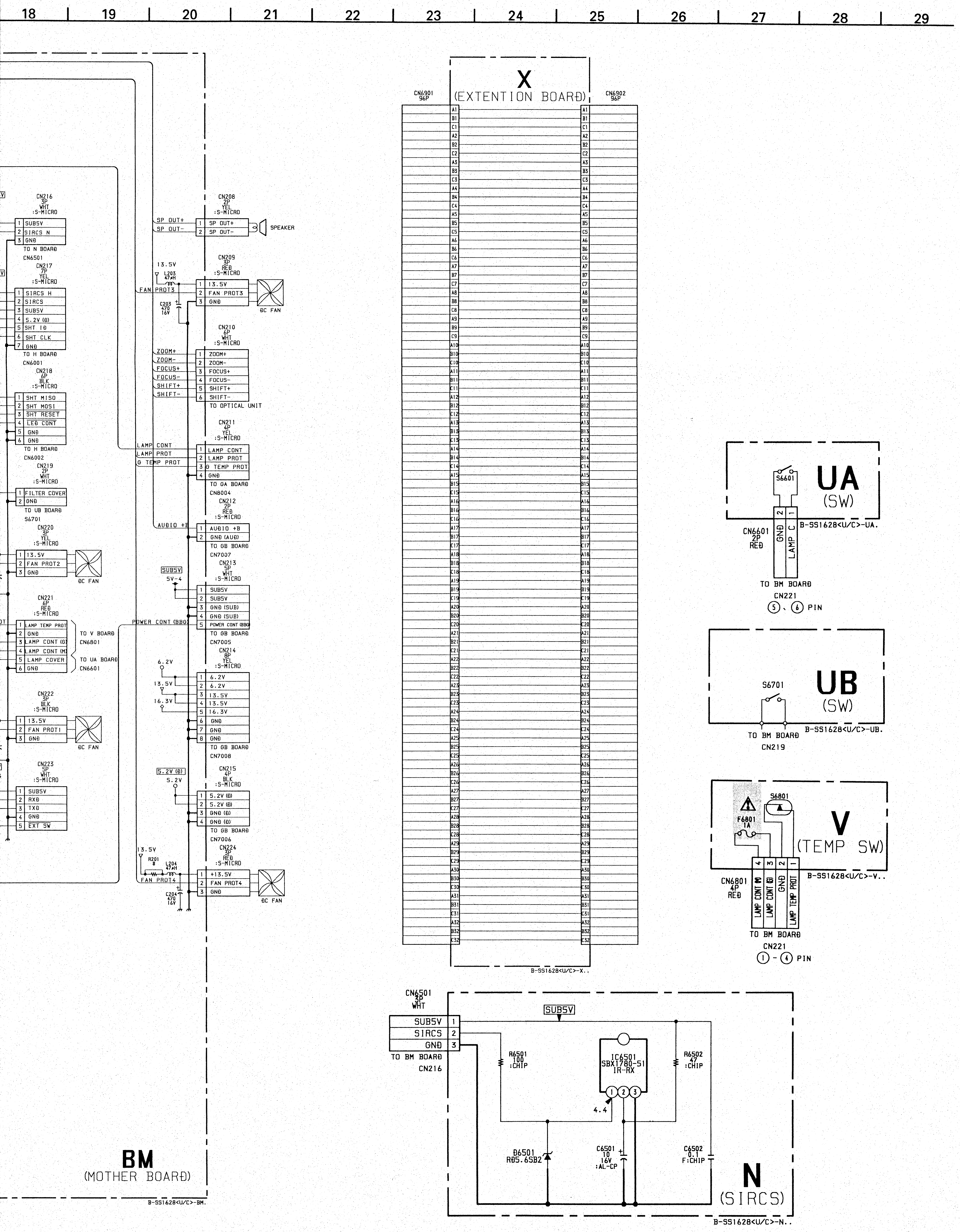
18
CN203 96P TO BA (2/3) BOARD CN1301
CN204 96P TO M (1/3) BOARD CN2001
CN205 96P TO M (2/3) BOARD CN2002
CN206 96P TO BB (1/6) BOARD CN3001
CN207 96P TO C (1/3) BOARD CN5001
SUBSV
5V-4
13.5V
6.2V
16.3V
5.2V (D)
5.2V
L201 47μH
L202 47μH
C201 470 16V
C202 470 16V


18
19
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24
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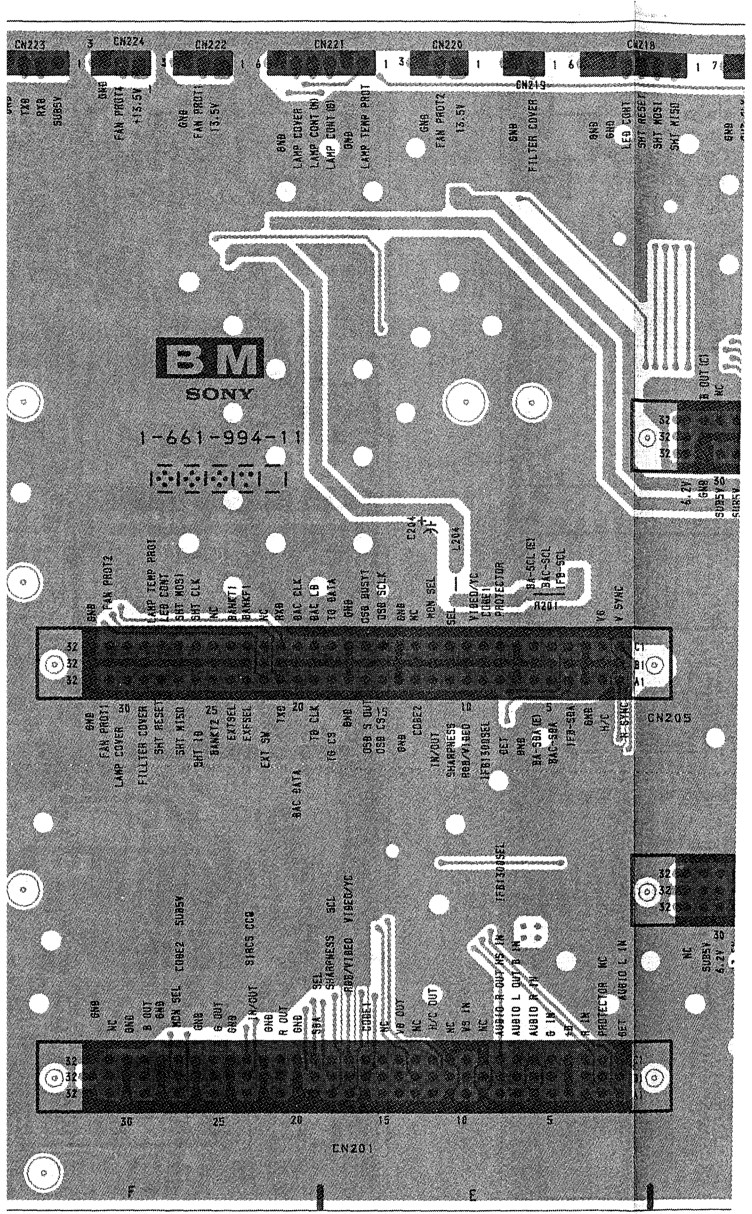
27
28
29
CN216 3P WHT :S-MICRO
1 SUBSV
2 SIRCS N
3 GND
TO N BOARD CN6501
CN217 7P YEL :S-MICRO
1 SIRCS H
2 SIRCS
3 SUBSV
4 5.2V (G)
5 SHT ID
6 SHT CLK
7 GND
TO H BOARD CN6001
CN218 6P BLK :S-MICRO
1 SHT MISO
2 SHT MOSI
3 SHT RESET
4 LED CONT
5 GND
6 GND
TO H BOARD CN6002
CN219 2P WHT :S-MICRO
1 FILTER COVER
2 GND
TO UB BOARD S6701
CN220 3P YEL :S-MICRO
1 13.5V
2 FAN PROT2
3 GND
DC FAN
CN221 6P RED :S-MICRO
1 LAMP TEMP PROT
2 GND
3 LAMP CONT (G)
4 LAMP CONT (M)
5 LAMP COVER
6 GND
TO V BOARD CN6801
TO UA BOARD CN6601
CN222 3P BLK :S-MICRO
1 13.5V
2 FAN PROT1
3 GND
DC FAN
CN223 5P WHT :S-MICRO
1 SUBSV
2 RXD
3 TXD
4 GND
5 EXT SW
CN208 2P YEL :S-MICRO
SP OUT+
SP OUT-
SPEAKER
CN209 3P RED :S-MICRO
13.5V
L203 47µH
FAN PROT3
C203 470 16V
1 13.5V
2 FAN PROT3
3 GND
DC FAN
CN210 6P WHT :S-MICRO
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
SHIFT-
TO OPTICAL UNIT
CN211 4P YEL :S-MICRO
LAMP CONT
LAMP PROT
G TEMP PROT
1 LAMP CONT
2 LAMP PROT
3 G TEMP PROT
4 GND
TO GA BOARD CN8004
CN212 2P RED :S-MICRO
AUDIO +B
1 AUDIO +B
2 GND (AUD)
TO GB BOARD CN7007
CN213 5P WHT :S-MICRO
SUBSV
5V-4
1 SUBSV
2 SUBSV
3 GND (SUB)
4 GND (SUB)
5 POWER CONT (BBG)
POWER CONT (BBG)
TO GB BOARD CN7005
CN214 8P YEL :S-MICRO
6.2V
13.5V
16.3V
1 6.2V
2 6.2V
3 13.5V
4 13.5V
5 16.3V
6 GND
7 GND
8 GND
TO GB BOARD CN7008
CN215 4P BLK :S-MICRO
5.2V (G)
5.2V
1 5.2V (G)
2 5.2V (G)
3 GND (G)
4 GND (G)
TO GB BOARD CN7006
CN224 3P RED :S-MICRO
13.5V
R201
L204 47µH
FAN PROT4
C204 470 16V
1 +13.5V
2 FAN PROT4
3 GND
DC FAN
BM
(MOTHER BOARD)
B-SS1628<U/C>-BM.
X
(EXTENTION BOARD)
CN6901 96P
CN6902 96P
A1 B1 C1 … A32 B32 C32
B-SS1628<U/C>-X..
UA
(SW)
S6601
CN6601 2P RED
2 GND
1 LAMP C
B-SS1628<U/C>-UA.
TO BM BOARD CN221 ⑤、⑥ PIN
UB
(SW)
S6701
TO BM BOARD CN219
B-SS1628<U/C>-UB.
V
(TEMP SW)
F6801 1A
S6801
CN6801 4P RED
4 LAMP CONT (M)
3 LAMP CONT (G)
2 GND
1 LAMP TEMP PROT
B-SS1628<U/C>-V..
TO BM BOARD CN221 ①-④ PIN
CN6501 3P WHT
1 SUBSV
2 SIRCS
3 GND
TO BM BOARD CN216
SUBSV
R6501 100 :CHIP
IC6501 SBX1780-51 IR-RX
4.4
R6502 47 :CHIP
D6501 RD5.6SB2
C6501 10 16V :AL-CP
C6502 0.1 F:CHIP
N
(SIRCS)
B-SS1628<U/C>-N..

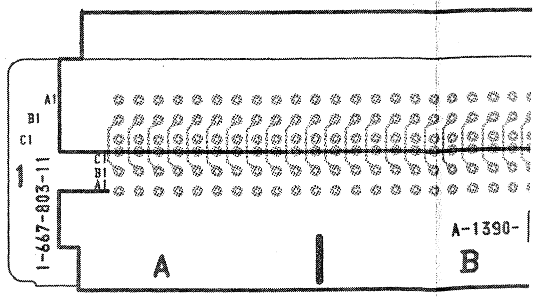
N

ide>



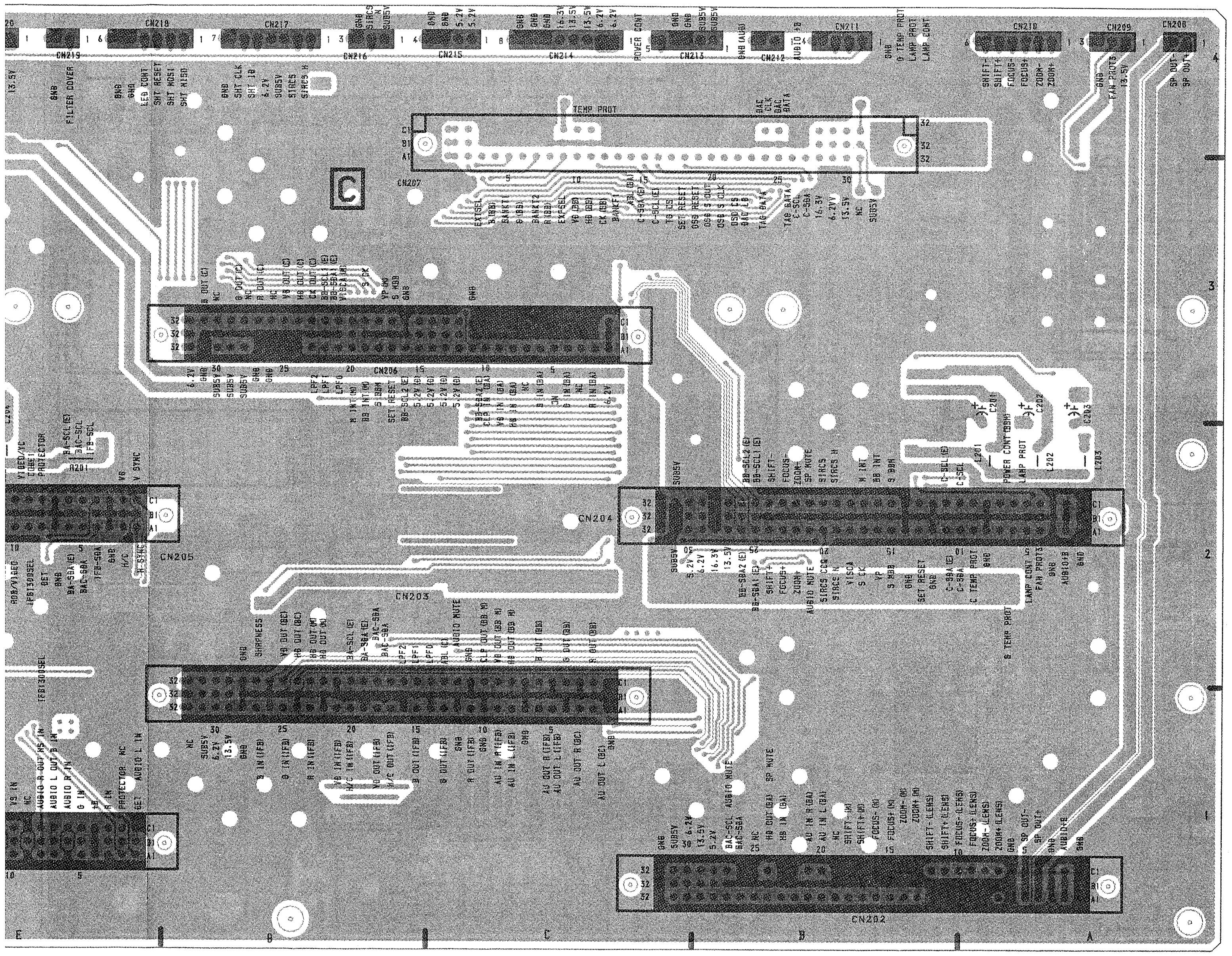
CN223
CN224
CN222
CN221
CN220
CN219
CN218
BM
SONY
1-661-994-11
CN205
CN201
F
E

– X BOARD – <A Side>

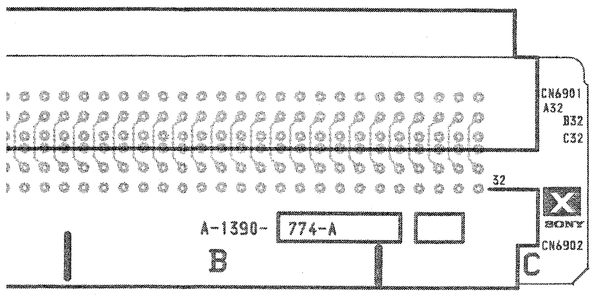


A1
B1
C1
1-667-803-11
A-1390-
A
B

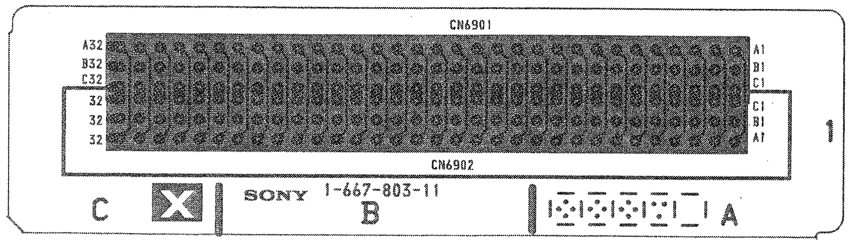
N [SIRCS] **UA** [SW] **UB** [SW] **V** [TEMP SW] **X** [EXTENTION BOARD]


CN219
CN218
CN217
CN216
CN215
CN214
CN213
CN212
CN211
CN210
CN209
CN208
CN207
CN206
CN205
CN204
CN203
CN202
TEMP PROT
C
E
D
B
A

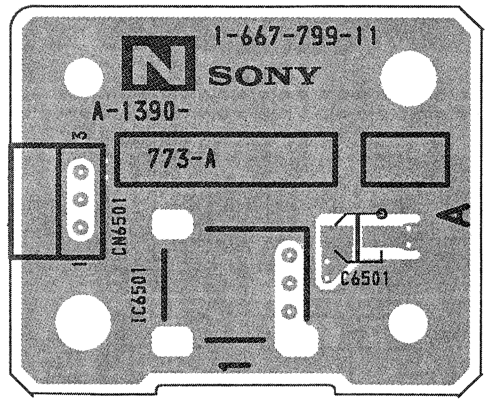
Side>


CN6901
A32
B32
C32
32
CN6902
A-1390-
774-A
SONY
X
B
C

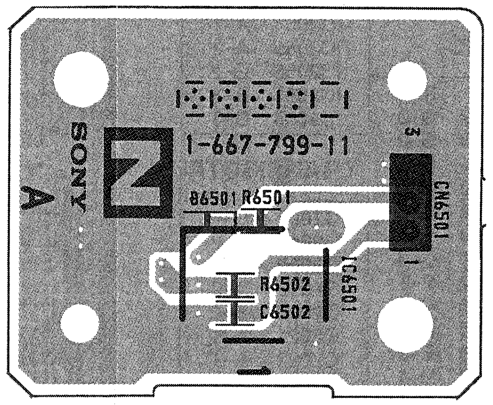
<B Side>


CN6901
A32
B32
C32
32
32
32
A1
B1
C1
C1
B1
A1
CN6902
1
C
X
SONY
1-667-803-11
B
A

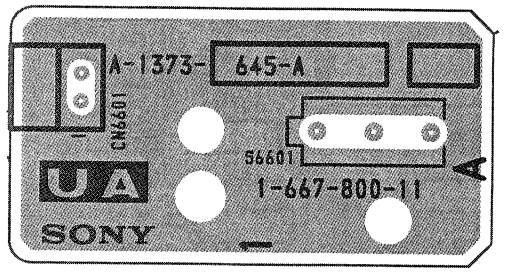
– N BOARD – <A Side>


1-667-799-11
N
SONY
A-1390-
773-A
CN6501
C6501
C6501
3
1
A

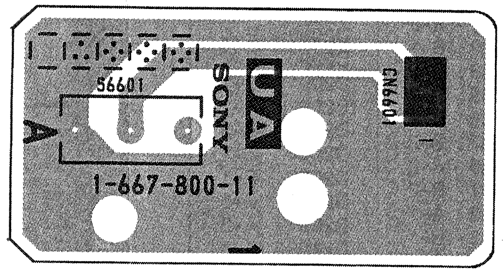
<B Side>


SONY
N
1-667-799-11
A
R6501
R6501
R6502
C6502
C6501
CN6501
3
1

– UA BOARD – <A Side>

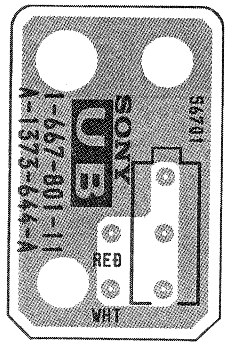

A-1373-
645-A
CN6601
S6601
U A
SONY
1-667-800-11
A

<B Side>

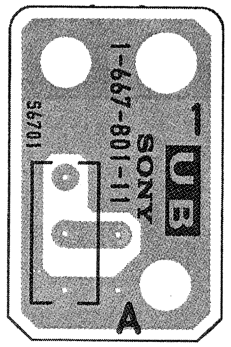

S6601
SONY
UA
CN6601
A
1-667-800-11
1

– UB BOARD –

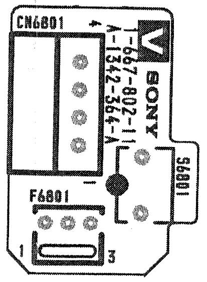
<A Side>


SONY
UB
1-667-801-11
A-1373-644-A
S6701
RED
WHT

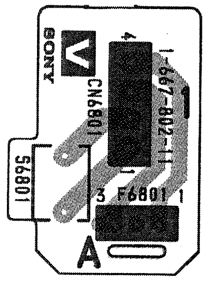
<B Side>


S6701
1-667-801-11
SONY
UB
1
A

– V BOARD – <A Side>


CN6801
V
SONY
1-667-802-11
A-1342-364-A
S6801
F6801
1
3
4

<B Side>


SONY
V
CN6801
1-667-802-11
S6801
F6801
3
1
4
A

M BOARD
(A SIDE)

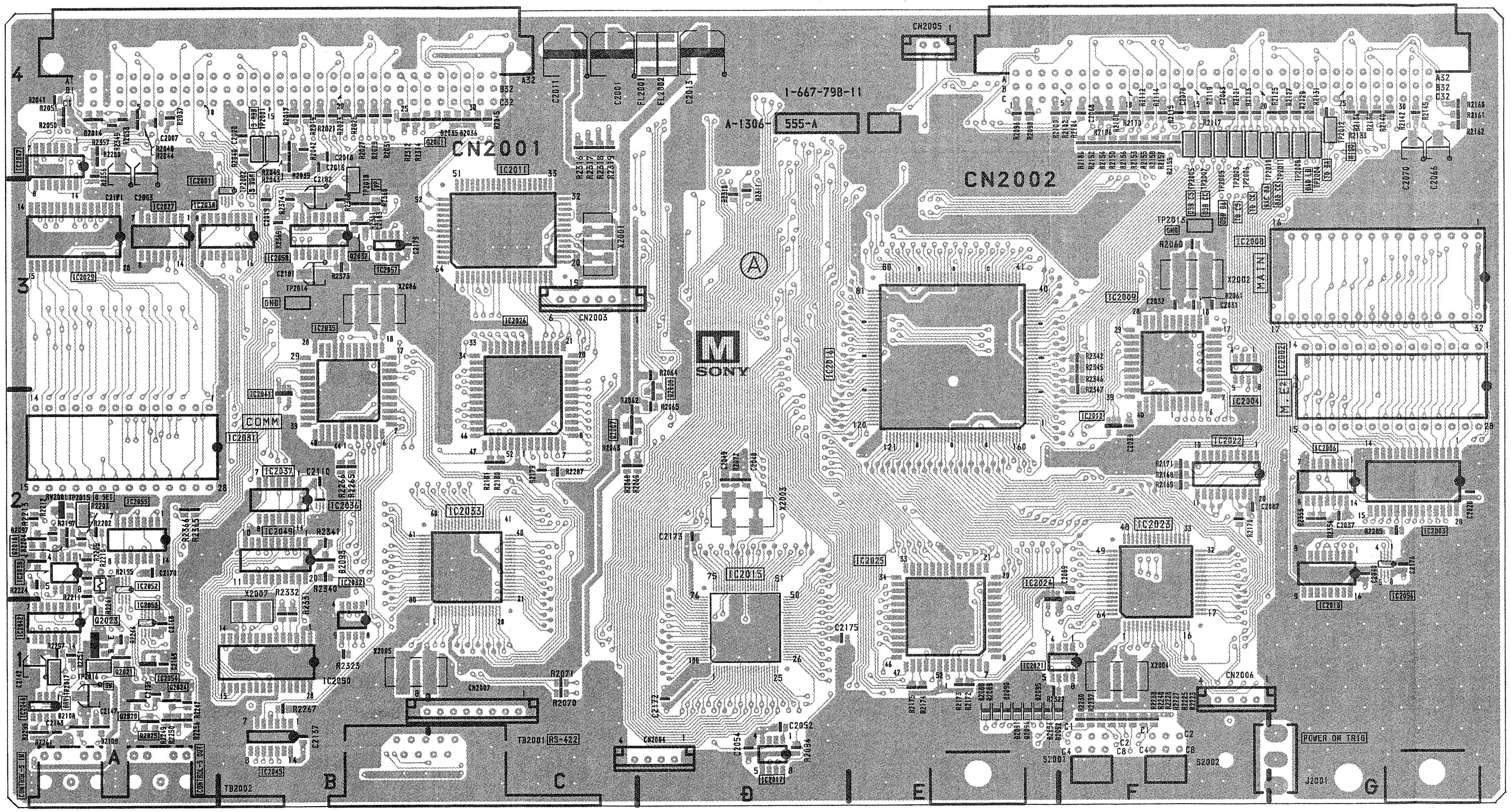
IC	
IC2001	B–3
IC2002	G–3
IC2003	G–2
IC2004	F–3
IC2006	G–2
IC2008	G–3
IC2009	F–3
IC2011	C–3
IC2012	F–2
IC2013	G–2
IC2015	D–1
IC2016	E–3
IC2017	D–1
IC2021	E–1
IC2022	F–2
IC2023	F–2
IC2024	E–1
IC2025	E–1
IC2026	C–3
IC2027	A–3
IC2029	A–3
IC2030	B–3
IC2031	A–2
IC2032	B–1
IC2033	C–2
IC2035	B–3
IC2036	B–2
IC2037	B–2
IC2038	A–2
IC2041	B–2
IC2042	A–1
IC2045	B–1
IC2046	A–1
IC2047	A–4
IC2049	B–2
IC2050	B–1
IC2052	A–2
IC2053	A–1
IC2054	A–1
IC2055	A–2
IC2056	G–2
IC2057	B–3
IC2058	B–3

TRANSISOTR	
Q2001	C–4
Q2007	C–2
Q2008	D–2
Q2016	A–2
Q2020	A–1
Q2021	A–1
Q2023	A–1
Q2024	A–1
Q2025	A–1
Q2037	B–3

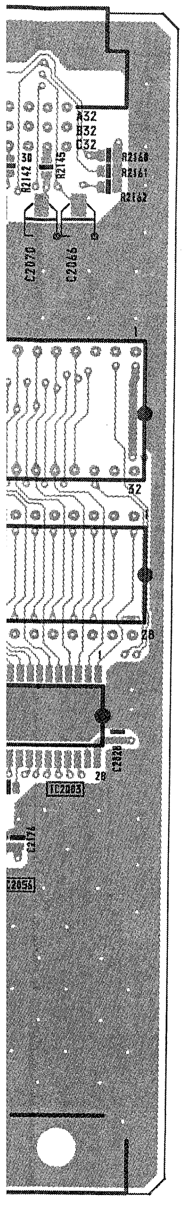
DIODE	
D2014	A–4
D2035	C–4
D2036	C–4
D2088	E–1
D2089	E–1
D2090	E–1
D2091	E–1
D2092	E–1
D2093	B–2
D2094	E–1
D2095	E–1
D2096	E–1
D2097	A–2
D2108	A–1
D2109	A–1

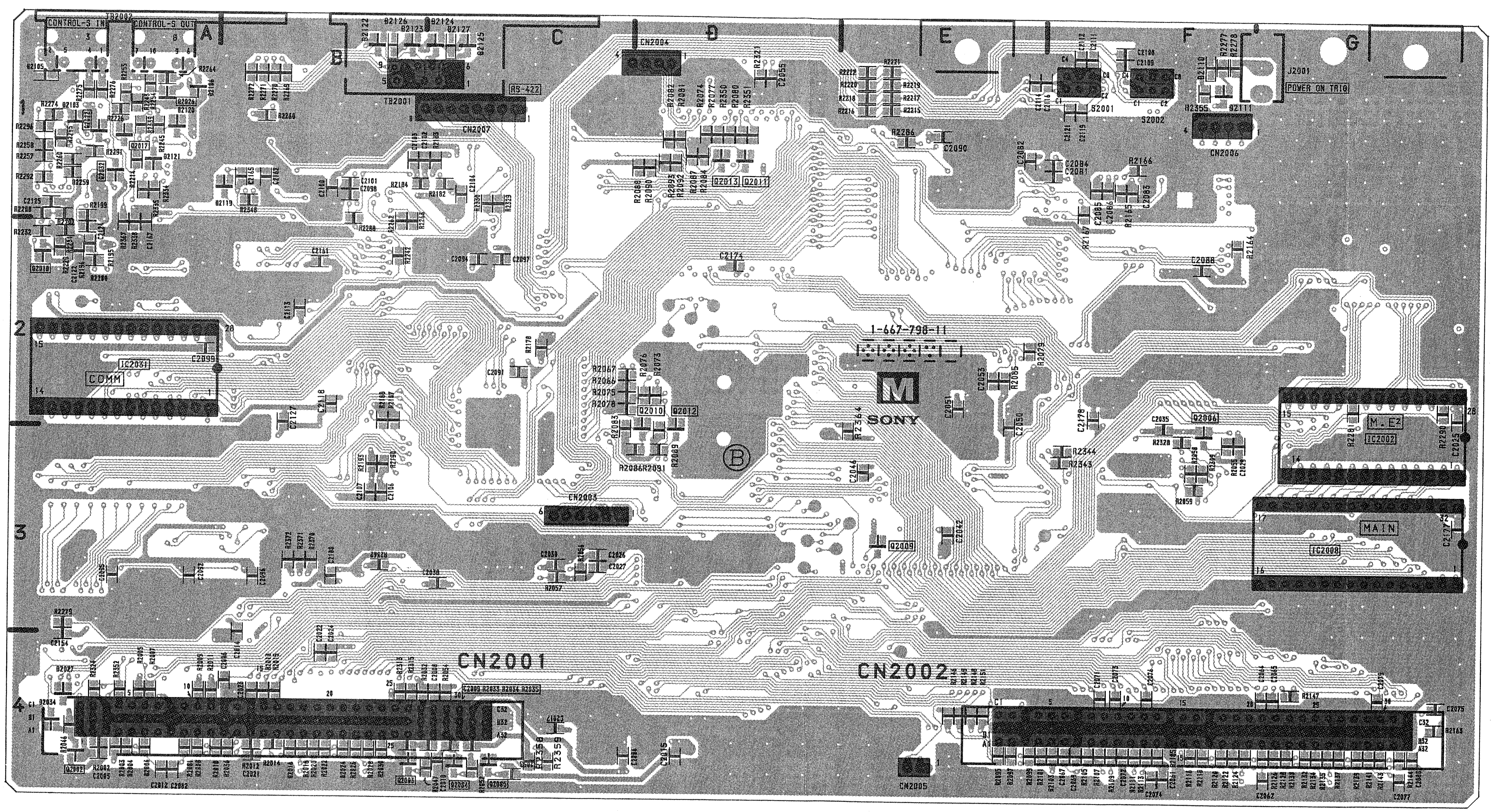
VARIABLE RESISTOR	
RV2001	A–2

– M BOARD – <A Side>


CN2001
CN2002
1-667-798-11
A-1306
555-A
SONY
CN2003
CN2005
CN2006
CN2007
TB2001 RS-422
TB2002
POWER ON TRIG
J2001
S2001
S2002
X2001
X2002
X2004
X2005
X2006
X2007
MAIN
COMM
A
B
C
D
E
F
G
1
2
3
4

<B Side>



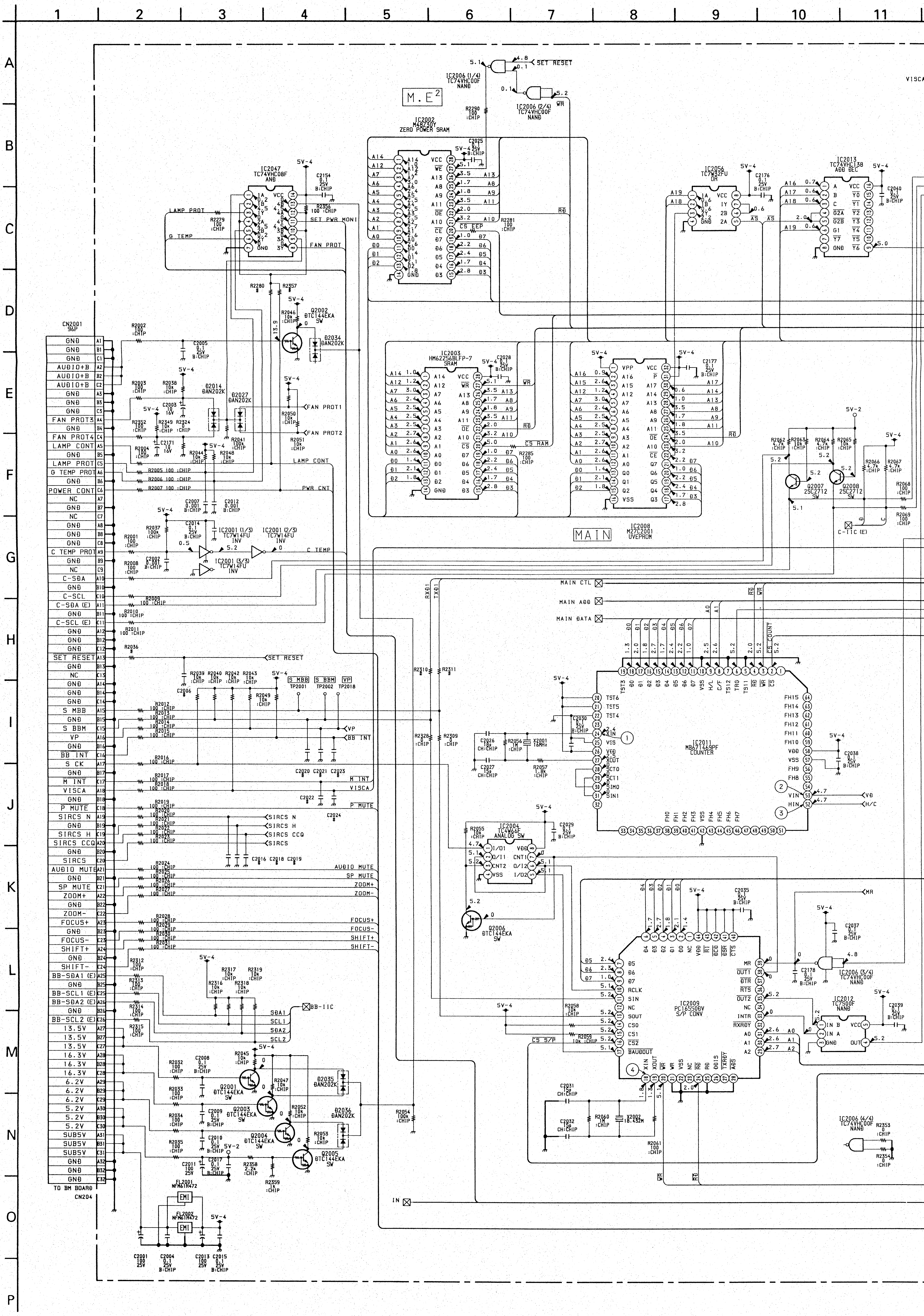

CONTROL-S IN
CONTROL-S OUT
TB2002
TB2001
CN2004
CN2007
RS-422
J2001
POWER ON TRIG
S2001
S2002
CN2006
A
B
C
D
E
F
G
1
2
3
4
IC2031
COMM
1-667-798-11
M
SONY
B
M.E2
IC2002
MAIN
IC2008
CN2003
CN2001
CN2002
CN2005

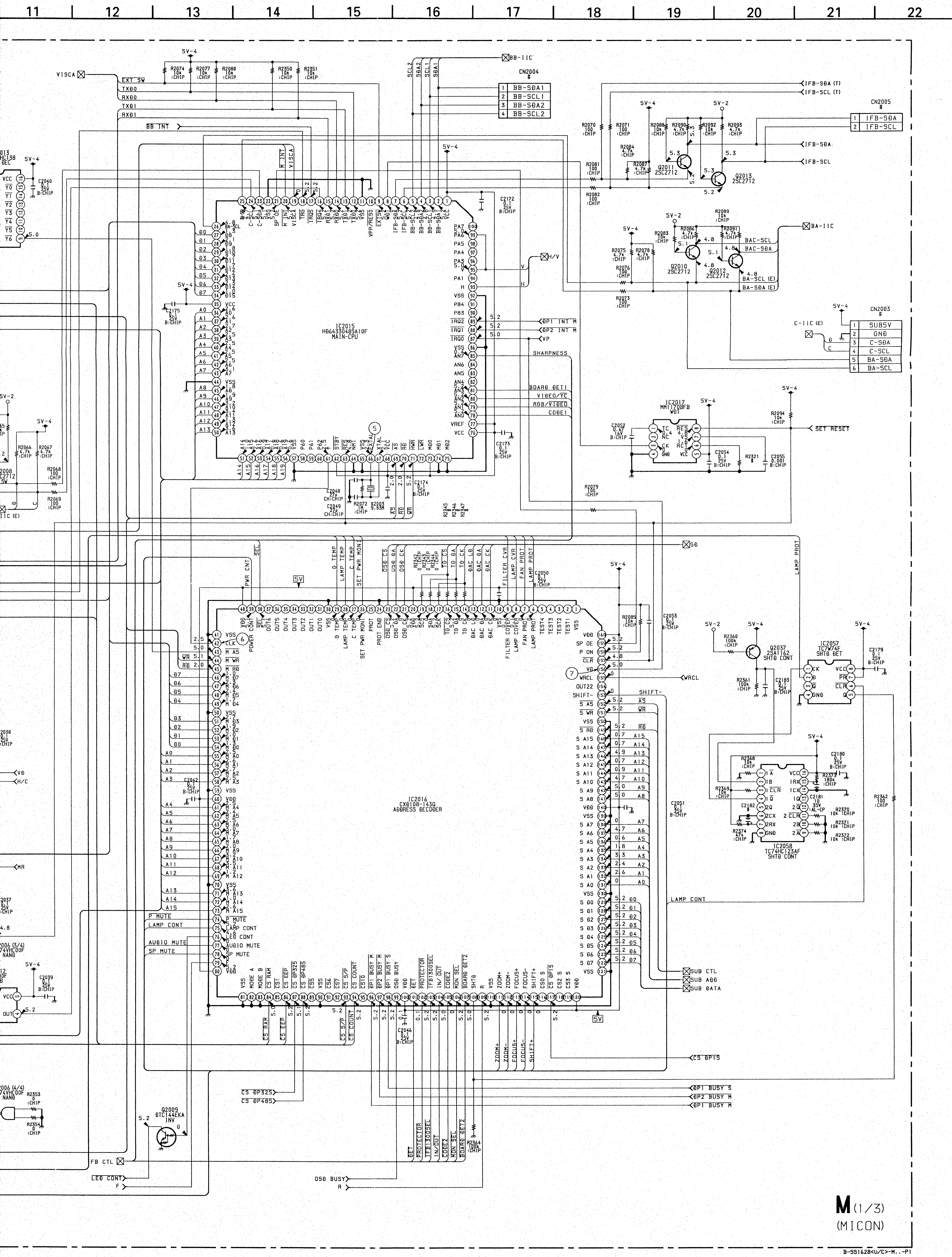
M BOARD (B SIDE)

IC	
IC2002	G–3
IC2008	G–3
IC2031	A–2

TRANSISTOR	
Q2002	A–4
Q2003	B–4
Q2004	C–4
Q2005	C–4
Q2006	F–2
Q2009	E–3
Q2010	D–2
Q2011	D–1
Q2012	D–2
Q2013	D–1
Q2017	A–1
Q2018	A–2
Q2022	A–1
Q2026	A–1
Q2032	A–1

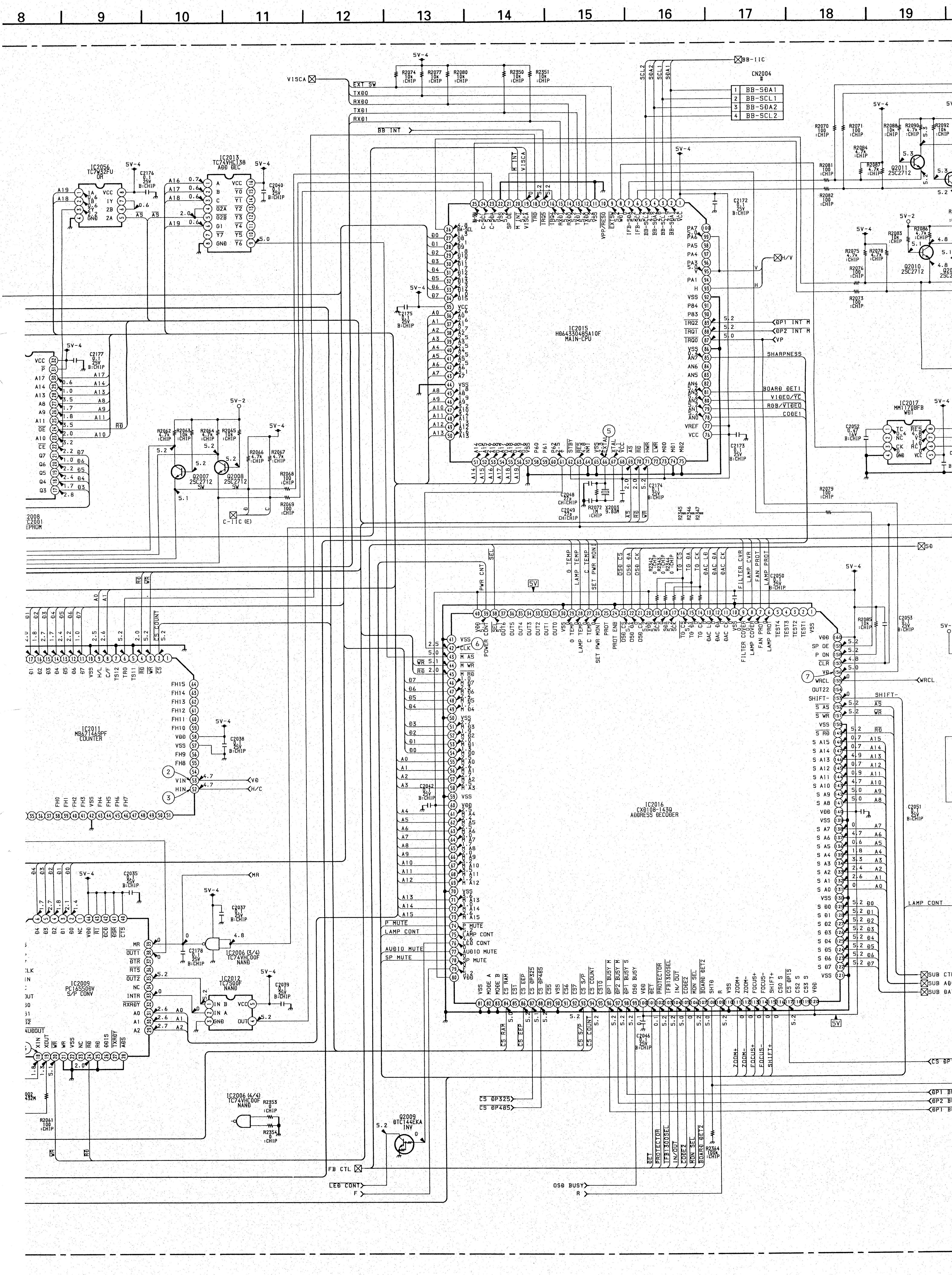
DIODE	
D2027	A–4
D2034	A–4
D2103	A–1
D2105	A–1
D2106	A–1
D2110	F–1
D2111	F–1
D2119	B–1
D2120	A–1
D2121	A–1
D2122	B–1
D2123	B–1
D2124	C–1
D2125	C–1
D2126	B–1
D2127	C–1

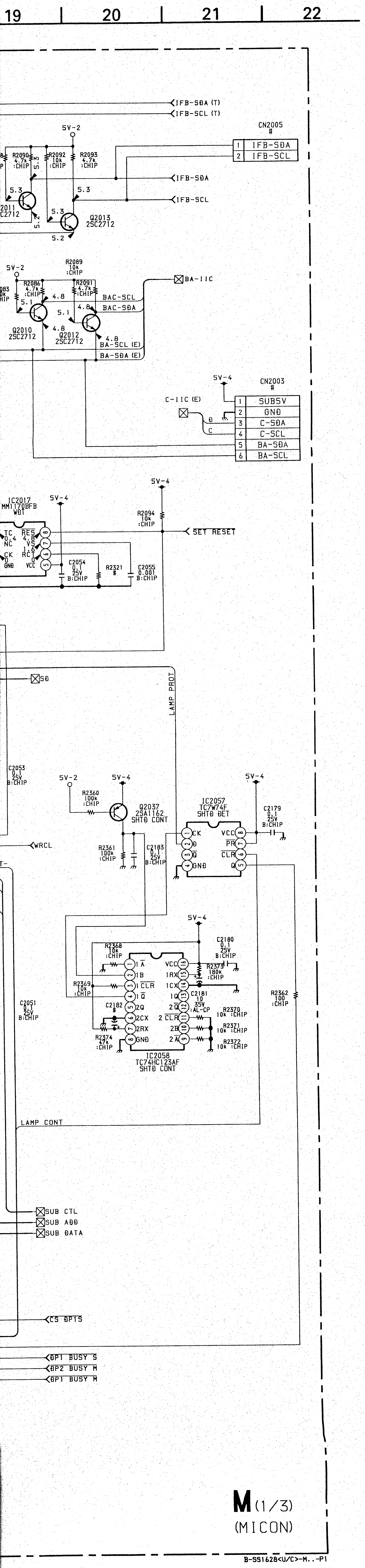

M.E²
MAIN
CN2001 96P
TO BM BOARD CN204
GND
AUDIO+B
FAN PROT3
FAN PROT4
LAMP CONT
LAMP PROT
G TEMP PROT
POWER CONT
NC
C TEMP PROT
C-SDA
C-SCL
C-SDA (E)
C-SCL (E)
SET RESET
S MBB
S BBM
VP
BB INT
S CK
M INT
VISCA
P MUTE
SIRCS N
SIRCS H
SIRCS CCQ
SIRCS
AUDIO MUTE
SP MUTE
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
SHIFT-
BB-SDA1 (E)
BB-SCL1 (E)
BB-SDA2 (E)
BB-SCL2 (E)
13.5V
16.3V
6.2V
5.2V
SUB5V
IC2002 M48Z30Y ZERO POWER SRAM
IC2003 HM62256BLFP-7 SRAM
IC2008 M27C2001 UVEPROM
IC2047 TC74VHC08F AND
IC2056 TC7W32FU OR
IC2013 TC74VHC138 ADD DEC
IC2006 (1/4) TC74VHC00F NAND
IC2006 (2/4) TC74VHC00F NAND
IC2006 (3/4) TC74VHC00F NAND
IC2006 (4/4) TC74VHC00F NAND
IC2001 (1/3) TC7W14FU INV
IC2001 (2/3) TC7W14FU INV
IC2001 (3/3) TC7W14FU INV
IC2011 MB671469PF COUNTER
IC2004 TC4W66F ANALOG SW
IC2009 PC16550DV S/P CONV
IC2012 TC7S00F NAND
Q2001 DTC144EKA SW
Q2002 DTC144EKA SW
Q2003 DTC144EKA SW
Q2004 DTC144EKA SW
Q2005 DTC144EKA SW
Q2006 DTC144EKA SW
Q2007 2SC2712 SW
Q2008 2SC2712 SW
D2014 DAN202K
D2027 DAN202K
D2034 DAN202K
D2035 DAN202K
D2036 DAN202K
FL2001 NFM61R472
FL2002 NFM61R472
X2001 16MHz
X2002 18.432M
SET RESET
FAN PROT1
FAN PROT2
LAMP CONT
PWR CNT
C TEMP
SET PWR MONI
FAN PROT
LAMP PROT
G TEMP
CS RAM
CS EEP
CS S/P
CS COUNT
MAIN CTL
MAIN ADD
MAIN DATA
RXD1
TXD1
BB-IIC
C-IIC (E)
IN
MR
VD
H/C
TP2001
TP2002
TP2018
5V-4
5V-2
VISCA


11
12
13
14
15
16
17
18
19
20
21
22
IC2015
HD6433048SA10F
MAIN-CPU
IC2016
CXD108-143Q
ADDRESS DECODER
IC2017
MM1170BFB
WDT
IC2057
TC7W74F
SHTG DET
IC2058
TC74HC123AF
SHTG CONT
Q2009
DTC144EKA
INV
Q2010
2SC2712
Q2011
2SC2712
Q2012
2SC2712
Q2013
2SC2712
Q2037
2SA1162
SHTG CONT
CN2003
1 SUB5V
2 GND
3 C-SDA
4 C-SCL
5 BA-SDA
6 BA-SCL
CN2004
1 BB-SDA1
2 BB-SCL1
3 BB-SDA2
4 BB-SCL2
CN2005
1 IFB-SDA
2 IFB-SCL
VISCA
EXT SW
TX00
RX00
TX01
RX01
BB INT
BB-IIC
SCL2
SDA2
SCL1
SDA1
IFB-SDA (T)
IFB-SCL (T)
IFB-SDA
IFB-SCL
BA-IIC
BAC-SCL
BAC-SDA
BA-SCL (E)
BA-SDA (E)
C-IIC (E)
H/V
DP1 INT M
DP2 INT M
VP
SHARPNESS
BOARD DET1
VIDEO/YC
RGB/VIDEO
CODE1
SET RESET
SG
PWR CNT
SEL
G TEMP
LAMP TEMP
C TEMP
SET PWR MONI
OSD CS
OSD DA
OSD CK
TG CS
TG DA
TG CK
DAC LD
DAC DA
DAC CK
FILTER CVR
LAMP CVR
FAN PROT
LAMP PROT
WRCL
SHIFT-
LAMP CONT
SUB CTL
SUB ADD
SUB DATA
CS DP1S
DP1 BUSY S
DP2 BUSY M
DP1 BUSY M
CS DP325
CS DP485
OSD BUSY
R
DET
PROTECTOR
IFB1300SEL
IN/OUT
CODE2
MON SEL
BOARD DET2
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
CS RAM
CS EEP
CS S/P
CS COUNT
P MUTE
LAMP CONT
AUDIO MUTE
SP MUTE
FB CTL
LED CONT
F
VD
H/C
MR
5V-2
5V-4
5V

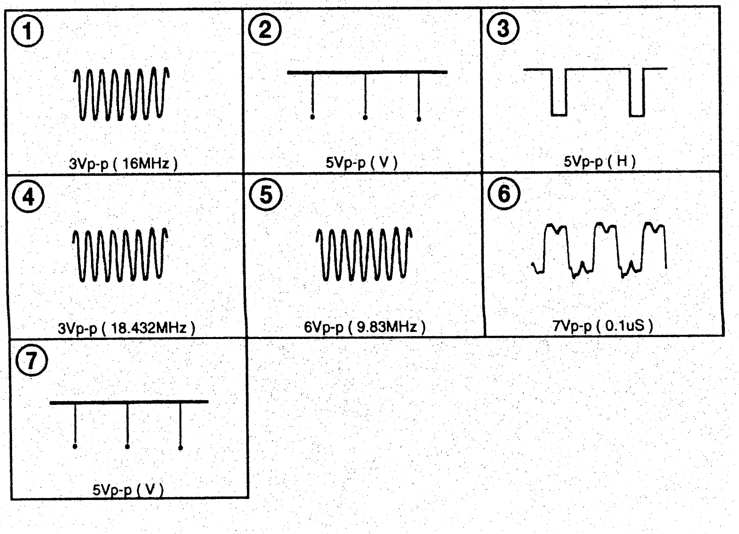
M(1/3)
(MICON)

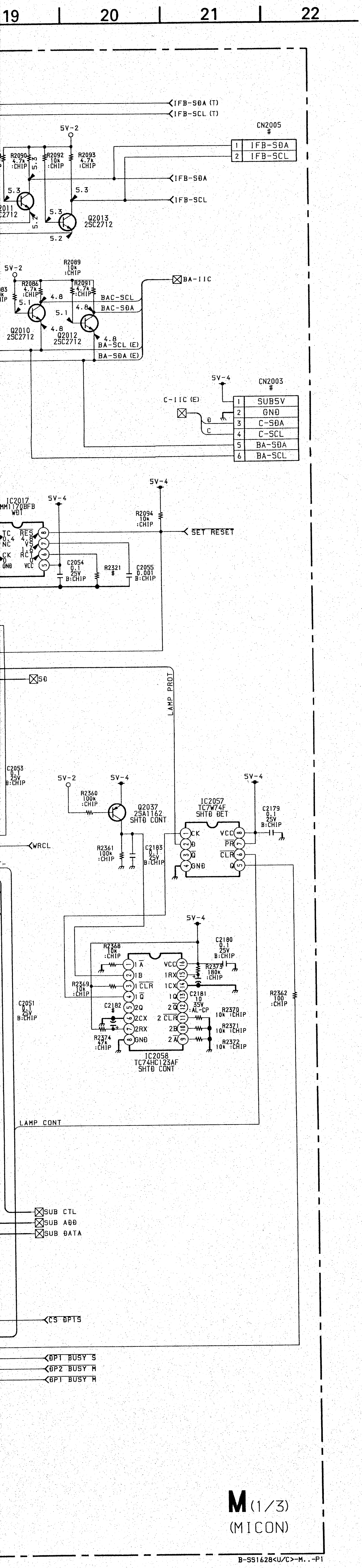
B-SS1628<U/C>-M..-P1


8
9
10
11
12
13
14
15
16
17
18
19
IC2015
HD6433048SA10F
MAIN-CPU
IC2016
CXD108-143Q
ADDRESS DECODER
IC2011
MB671469PF
COUNTER
IC2009
PC16550DV
S/P CONV
IC2013
TC74VHC138
ADD DEC
IC2056
TC7W32FU
OR
IC2017
MM1170BFB
WDT
IC2012
TC7S00F
NAND
IC2006 (3/4)
TC74VHC00F
NAND
IC2006 (4/4)
TC74VHC00F
NAND
Q2007
2SC2712
SW
Q2008
2SC2712
SW
Q2009
DTC144EKA
INV
Q2010
2SC2712
Q2011
2SC2712
IC2008
IC2001
EPROM
CN2004
1 BB-SDA1
2 BB-SCL1
3 BB-SDA2
4 BB-SCL2
BB-IIC
VISCA
EXT SW
TXD0
RXD0
TXD1
RXD1
BB INT
SCL2
SDA2
SCL1
SDA1
M INT
H/V
DP1 INT H
DP2 INT H
VP
SHARPNESS
BOARD DET1
VIDEO/YC
RGB/VIDEO
CODE1
C-IIC (E)
SD
PWR CNT
SEL
G TEMP
LAMP TEMP
C TEMP
SET PWR MONI
OSD CS
OSD DA
OSD CK
TG CS
TG DA
TG CK
DAC LD
DAC DA
DAC CK
FILTER CVR
LAMP CVR
FAN PROT
LAMP PROT
WRCL
SHIFT-
LAMP CONT
SUB CT
SUB AD
SUB DA
CS DP
DP1 B
DP2 B
DP1 B
P MUTE
LAMP CONT
AUDIO MUTE
SP MUTE
CS RAM
CS EEP
CS S/P
CS COUNT
CS DP325
CS DP485
DET
PROTECTOR
IFB1300SEL
IN/OUT
CODE2
MON SEL
BOARD DET2
ZOOM+
ZOOM-
FOCUS+
FOCUS-
SHIFT+
FB CTL
LED CONT
F
OSD BUSY
R
MR
VD
H/C
5V-4
5V-2
5V

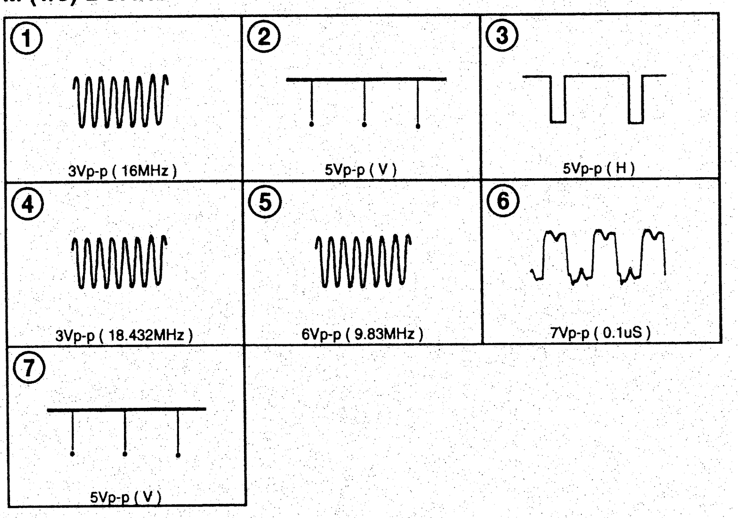

19
20
21
22
IFB-SDA (T)
IFB-SCL (T)
CN2005
1 IFB-SDA
2 IFB-SCL
IFB-SDA
IFB-SCL
5V-2
R2090 4.7k :CHIP
R2092 10k :CHIP
R2093 4.7k :CHIP
Q2013 2SC2712
5.3
5.2
R2089 10k :CHIP
R2086 4.7k :CHIP
R2091 4.7k :CHIP
BA-IIC
BAC-SCL
BAC-SDA
Q2010 2SC2712
Q2012 2SC2712
4.8
5.1
BA-SCL (E)
BA-SDA (E)
5V-4
CN2003
C-IIC (E)
1 SUBSV
2 GND
3 C-SDA
4 C-SCL
5 BA-SDA
6 BA-SCL
IC2017 MM1170BFB WDT
R2094 10k :CHIP
SET RESET
C2054 0.1 25V B:CHIP
R2321
C2055 0.001 B:CHIP
SD
LAMP PROT
C2053 0.1 25V B:CHIP
R2360 100k :CHIP
Q2037 2SA1162 SHTD CONT
IC2057 TC7W74F SHTD DET
C2179 0.1 25V B:CHIP
WRCL
R2361 100k :CHIP
C2183 0.1 25V B:CHIP
C2180 0.1 25V B:CHIP
R2368 10k :CHIP
R2373 180k :CHIP
R2369 10k :CHIP
C2181 10 25V :AL-CP
C2182
R2370 10k :CHIP
R2371 10k :CHIP
R2372 10k :CHIP
R2374 47k :CHIP
IC2058 TC74HC123AF SHTD CONT
R2362 100 :CHIP
C2051 0.1 25V B:CHIP
LAMP CONT
SUB CTL
SUB ADD
SUB DATA
CS DPTS
DP1 BUSY S
DP2 BUSY M
DP1 BUSY M
M (1/3)
(MICON)
B-SS1628<U/C>-M..-P1

M (1/3) BOARD

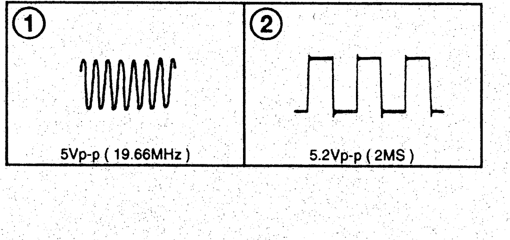

①
3Vp-p (16MHz)
②
5Vp-p (V)
③
5Vp-p (H)
④
3Vp-p (18.432MHz)
⑤
6Vp-p (9.83MHz)
⑥
7Vp-p (0.1uS)
⑦
5Vp-p (V)

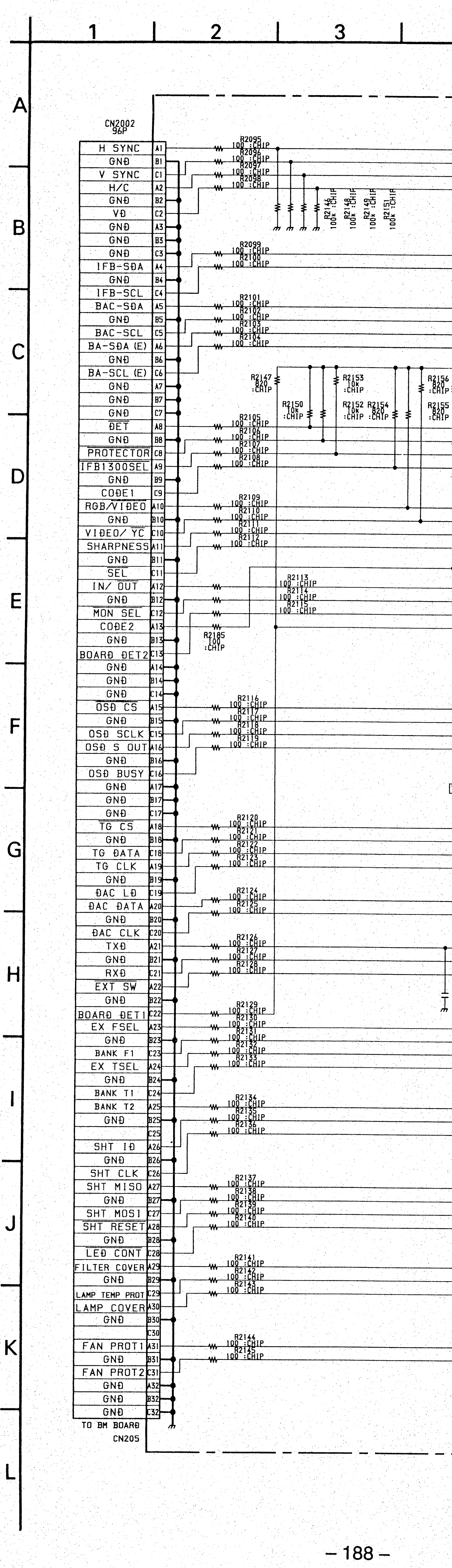

19
20
21
22
IFB-SDA (T)
IFB-SCL (T)
CN2005
1 IFB-SDA
2 IFB-SCL
IFB-SDA
IFB-SCL
5V-2
R2090 4.7k :CHIP
R2092 10k :CHIP
R2093 4.7k :CHIP
Q2013 2SC2712
R2089 10k :CHIP
R2086 4.7k :CHIP
R2091 4.7k :CHIP
BA-IIC
BAC-SCL
BAC-SDA
BA-SCL (E)
BA-SDA (E)
Q2010 2SC2712
Q2012 2SC2712
5V-4
CN2003
C-IIC (E)
1 SUB5V
2 GND
3 C-SDA
4 C-SCL
5 BA-SDA
6 BA-SCL
IC2017 MM1170BFB WDT
R2094 10k :CHIP
SET RESET
C2054 0.1 25V B:CHIP
R2321
C2055 0.001 B:CHIP
SD
LAMP PROT
C2053 0.1 25V B:CHIP
R2360 100k :CHIP
Q2037 2SA1162 SHTD CONT
R2361 100k :CHIP
C2183 0.1 25V B:CHIP
IC2057 TC7W74F SHTD DET
C2179 0.1 25V B:CHIP
WRCL
C2180 0.1 25V B:CHIP
R2368 10k :CHIP
R2369 10k :CHIP
R2373 180k :CHIP
C2181 10 35V :AL-CP
C2182
R2370 10k :CHIP
R2371 10k :CHIP
R2372 10k :CHIP
R2374 47k :CHIP
IC2058 TC74HC123AF SHTD CONT
R2362 100 :CHIP
C2051 0.1 25V B:CHIP
LAMP CONT
SUB CTL
SUB ADD
SUB DATA
CS DPTS
DP1 BUSY S
DP2 BUSY M
DP1 BUSY M
M (1/3)
(MICON)
B-SS1628<U/C>-M..-P1

M (1/3) BOARD

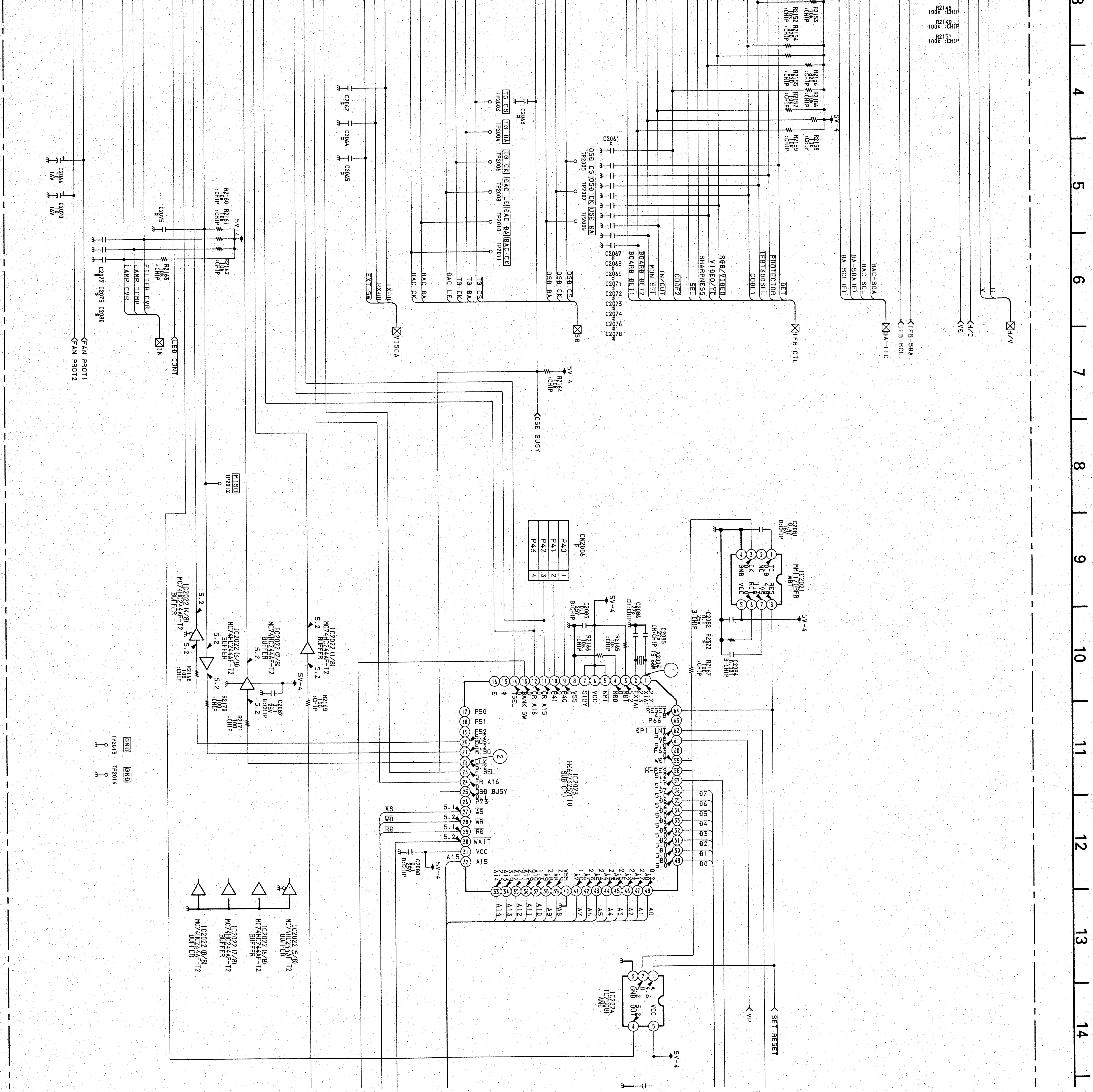

①
3Vp-p (16MHz)
②
5Vp-p (V)
③
5Vp-p (H)
④
3Vp-p (18.432MHz)
⑤
6Vp-p (9.83MHz)
⑥
7Vp-p (0.1uS)
⑦
5Vp-p (V)

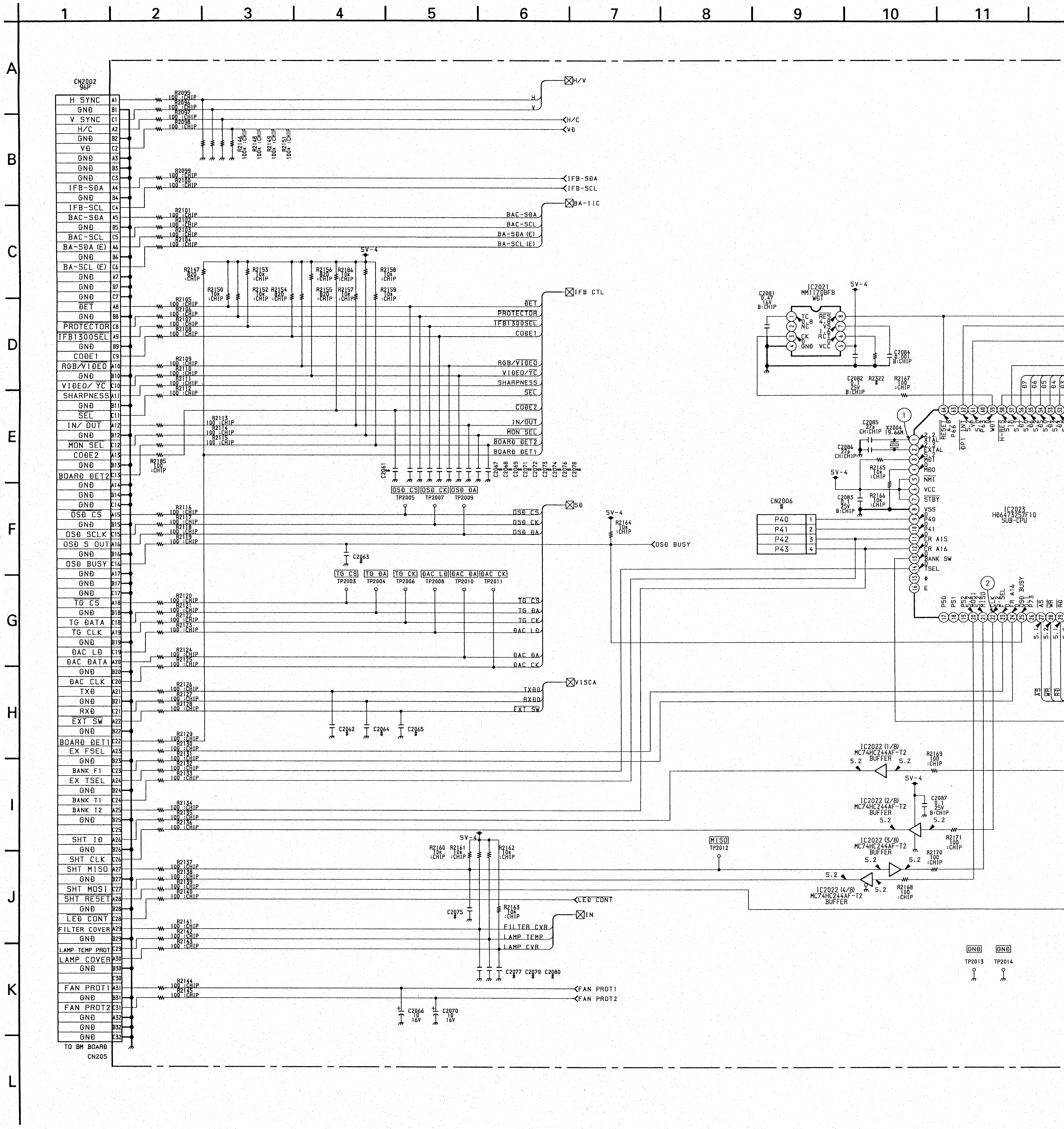
M (2/3) BOARD

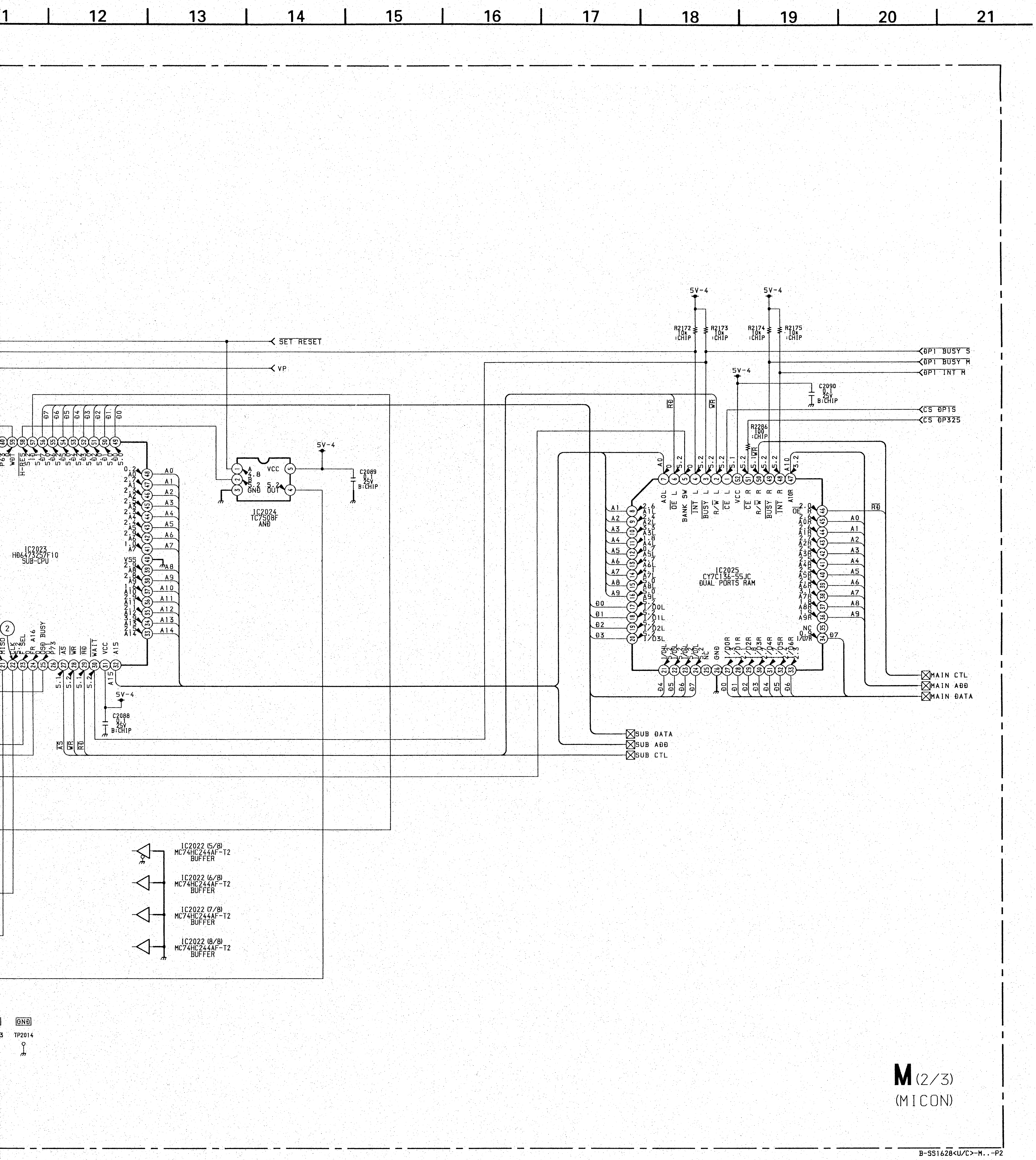

①
5Vp-p (19.66MHz)
②
5.2Vp-p (2MS)


1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
CN2002
96P
H SYNC
GND
V SYNC
H/C
VD
IFB-SDA
IFB-SCL
BAC-SDA
BAC-SCL
BA-SDA (E)
BA-SCL (E)
DET
PROTECTOR
IFB1300SEL
CODE1
RGB/VIDEO
VIDEO/ YC
SHARPNESS
SEL
IN/ OUT
MON SEL
CODE2
BOARD DET2
OSD CS
OSD SCLK
OSD S OUT
OSD BUSY
TG CS
TG DATA
TG CLK
DAC LD
DAC DATA
DAC CLK
TXD
RXD
EXT SW
BOARD DET1
EX FSEL
BANK F1
EX TSEL
BANK T1
BANK T2
SHT ID
SHT CLK
SHT MISO
SHT MOSI
SHT RESET
LED CONT
FILTER COVER
LAMP TEMP PROT
LAMP COVER
FAN PROT1
FAN PROT2
TO BM BOARD
CN205
R2095
R2096
R2097
R2098
R2099
R2100
R2101
R2102
R2103
R2104
R2105
R2106
R2107
R2108
R2109
R2110
R2111
R2112
R2113
R2114
R2115
R2116
R2117
R2118
R2119
R2120
R2121
R2122
R2123
R2124
R2125
R2126
R2127
R2128
R2129
R2130
R2131
R2132
R2133
R2134
R2135
R2136
R2137
R2138
R2139
R2140
R2141
R2142
R2143
R2144
R2145
R2146 100k :CHIP
R2148 100k :CHIP
R2149 100k :CHIP
R2151 100k :CHIP
R2147 820 :CHIP
R2150 10k :CHIP
R2152 10k :CHIP
R2153 10k :CHIP
R2154 820 :CHIP
R2155 820 :CHIP
R2156 820 :CHIP
R2185 100 :CHIP
100 :CHIP

Schematic diagram
M(2/3) board ➡

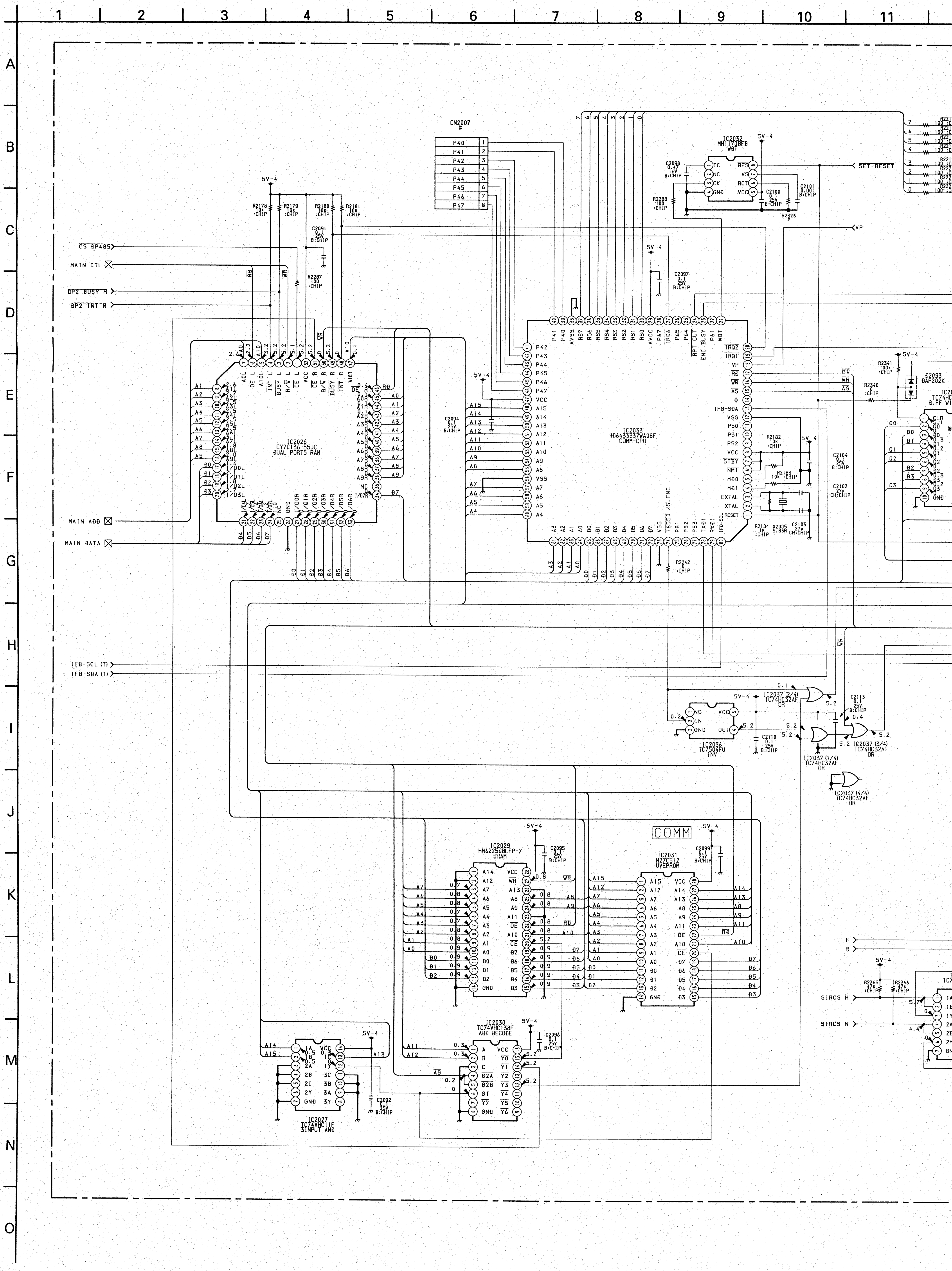

IC2023
HD6475328CP10
SUB-CPU
IC2021
MM1170BFB
WDT
IC2024
TC7S08F
AND
IC2022
MC74HC244AF-T2
BUFFER
CN2006
P40
P41
P42
P43
X2004
MISO
TP2012
GND
TP2013
GND
TP2014
TG CS
TP2003
TG DA
TP2004
TG CK
TP2006
DAC LD
TP2008
DAC DA
TP2010
DAC CK
TP2011
OSD CS
TP2005
OSD CK
TP2007
OSD DA
TP2009
TXDO
RXDO
EXT SW
DAC DA
DAC CK
DAC LD
TG DA
TG CK
TG CS
OSD CS
OSD CK
OSD DA
BOARD DET1
BOARD DET2
MON SEL
IN/OUT
CODE2
SEL
SHARPNESS
VIDEO/YC
RGB/VIDEO
CODE1
IFB1305SEL
PROTECTOR
DET
BA-SCL (E)
BA-SDA (E)
BA-SCL
BA-SDA
LAMP CVR
LAMP TEMP
FILTER CVR
FAN PROT2
FAN PROT1
LED CONT
IN
VISCA
OSD
OSD BUSY
IFB CTL
BA-IIC
IFB-SCL
IFB-SDA
VD
H/C
H/V
VP
SET RESET
5V-4
RESET
P66
WDT
A15
A16
BANK SW
WAIT
VCC
AS
WR
RD
D0
D1
D2
D3
D4
D5
D6
D7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
4
5
6
7
8
9
10
11
12
13
14

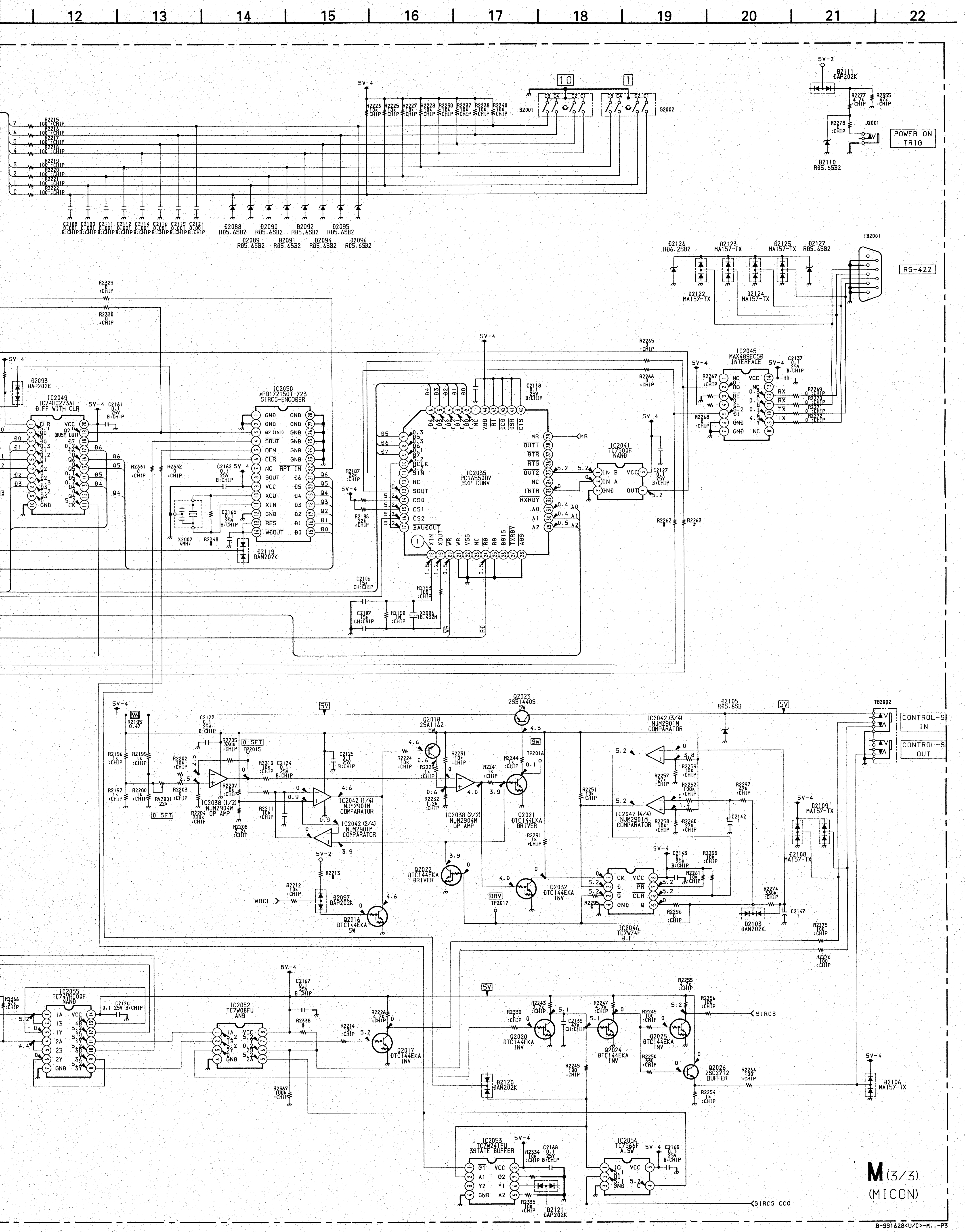

CN2002
96P
H SYNC
GND
V SYNC
H/C
VD
IFB-SDA
IFB-SCL
BAC-SDA
BAC-SCL
BA-SDA (E)
BA-SCL (E)
DET
PROTECTOR
IFB1300SEL
CODE1
RGB/VIDEO
VIDEO/ YC
SHARPNESS
SEL
IN/ OUT
MON SEL
CODE2
BOARD DET2
OSD CS
OSD SCLK
OSD S OUT
OSD BUSY
TG CS
TG DATA
TG CLK
DAC LD
DAC DATA
DAC CLK
TXD
RXD
EXT SW
BOARD DET1
EX FSEL
BANK F1
EX TSEL
BANK T1
BANK T2
SHT ID
SHT CLK
SHT MISO
SHT MOSI
SHT RESET
LED CONT
FILTER COVER
LAMP TEMP PROT
LAMP COVER
FAN PROT1
FAN PROT2
TO BM BOARD
CN205
H/V
H/C
VD
IFB-SDA
IFB-SCL
BA-IIC
IFB CTL
SD
OSD BUSY
VISCA
LED CONT
IN
FAN PROT1
FAN PROT2
5V-4
OSD CS
OSD CK
OSD DA
TP2005
TP2007
TP2009
TG CS
TG DA
TG CK
DAC LD
DAC DA
DAC CK
TP2003
TP2004
TP2006
TP2008
TP2010
TP2011
C2062
C2063
C2064
C2065
C2066
10
16V
C2070
10
16V
C2075
C2077
C2079
C2080
FILTER CVR
LAMP TEMP
LAMP CVR
MISO
TP2012
GND
TP2013
GND
TP2014
IC2021
MM1170BFB
WDT
IC2022 (1/8)
MC74HC244AF-T2
BUFFER
IC2022 (2/8)
MC74HC244AF-T2
BUFFER
IC2022 (3/8)
MC74HC244AF-T2
BUFFER
IC2022 (4/8)
MC74HC244AF-T2
BUFFER
CN2006
P40
P41
P42
P43
IC2023
HD6473257F10
SUB-CPU
X2004
19.66M
RESET
NMI
VCC
STBY
VSS
BANK SW
TSEL
OSD BUSY
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L



M (2/3)
(MICON)

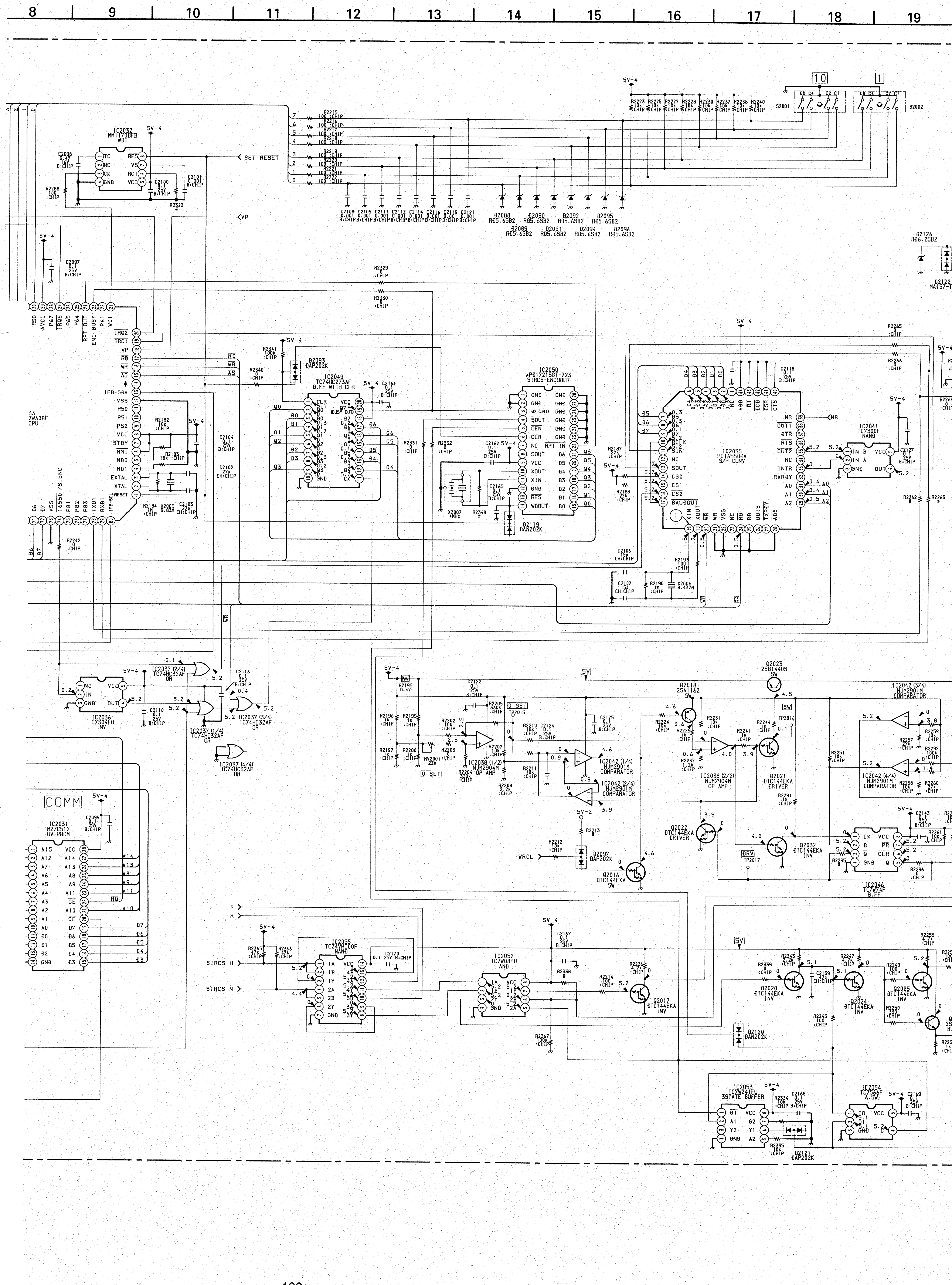
11
12
13
14
15
16
17
18
19
20
21
IC2023
HD6473257F10
SUB-CPU
IC2024
TC7S08F
AND
IC2025
CY7C136-55JC
DUAL PORTS RAM
IC2022 (5/8)
MC74HC244AF-T2
BUFFER
IC2022 (6/8)
MC74HC244AF-T2
BUFFER
IC2022 (7/8)
MC74HC244AF-T2
BUFFER
IC2022 (8/8)
MC74HC244AF-T2
BUFFER
SET RESET
VP
5V-4
C2088
0.1
25V
B:CHIP
C2089
0.1
25V
B:CHIP
C2090
0.1
25V
B:CHIP
R2172
10k
:CHIP
R2173
10k
:CHIP
R2174
10k
:CHIP
R2175
10k
:CHIP
R2286
100
:CHIP
DPI BUSY S
DPI BUSY M
DPI INT M
CS DP15
CS DP325
MAIN CTL
MAIN ADD
MAIN DATA
SUB DATA
SUB ADD
SUB CTL
MISO
SEL
R A16
DSP BUSY
P73
AS
WR
RD
WAIT
VCC
A15
H-RES
WDT
P63
VSS
GND
BANK SW
AOL
OE L
INT L
BUSY L
R/W L
CE L
CE R
R/W R
BUSY R
INT R
A10R
NC
GND
TP2014

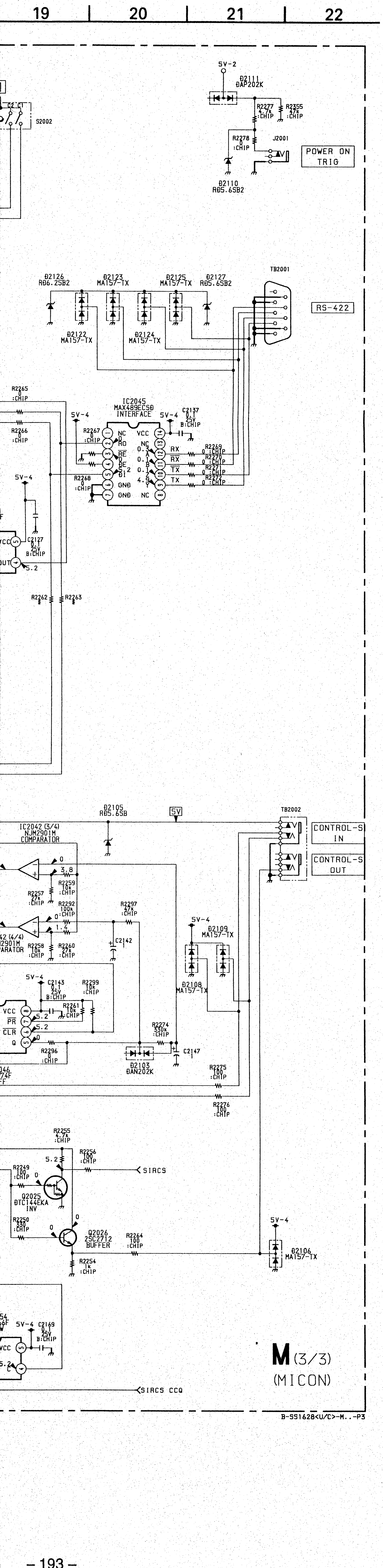

CS DP485
MAIN CTL
DP2 BUSY H
DP2 INT H
MAIN ADD
MAIN DATA
IFB-SCL (T)
IFB-SDA (T)
IC2026
CY7C136-55JC
DUAL PORTS RAM
IC2033
HD6433337WA08F
COMM-CPU
CN2007
P40
P41
P42
P43
P44
P45
P46
P47
IC2032
MM1170BFB
WDT
SET RESET
VP
IC2036
TC7S04FU
INV
IC2037 (1/4)
IC2037 (2/4)
IC2037 (3/4)
IC2037 (4/4)
TC74HC32AF
OR
IC2029
HM62256BLFP-7
SRAM
COMM
IC2031
M27C512
UVEPROM
IC2030
TC74VHC138F
ADD DECODE
IC2027
TC74VHC11F
3INPUT AND
D2093
DAP202K
SIRCS H
SIRCS N
F
R
5V-4
R2178
R2179
R2180
R2181
R2287
C2091
C2094
C2097
C2098
C2100
C2101
R2288
R2323
R2182
R2183
R2184
X2005
9.83M
C2103
C2104
C2102
R2242
R2340
R2341
C2095
C2099
C2096
C2092
C2110
C2113
R2365
R2366


12
13
14
15
16
17
18
19
20
21
22
IC2049 TC74HC273AF B.FF WITH CLR
IC2050 µPD17215GT-723 SIRCS-ENCODER
IC2035 PC16550DV S/P CONV
IC2041 TC7S00F NAND
IC2045 MAX489ECSD INTERFACE
IC2038 (1/2) NJM2904M OP AMP
IC2038 (2/2) NJM2904M OP AMP
IC2042 (1/4) NJM2901M COMPARATOR
IC2042 (2/4) NJM2901M COMPARATOR
IC2042 (3/4) NJM2901M COMPARATOR
IC2042 (4/4) NJM2901M COMPARATOR
IC2044 TC7W74F D.FF
IC2055 TC74VHC00F NAND
IC2052 TC7W08FU AND
IC2053 TC7W241FU 3STATE BUFFER
IC2054 TC7S66F A.SW
Q2016 DTC144EKA SW
Q2017 DTC144EKA INV
Q2018 2SA1162 SW
Q2020 DTC144EKA INV
Q2021 DTC144EKA DRIVER
Q2022 DTC144EKA DRIVER
Q2023 2SB1440S SW
Q2024 DTC144EKA INV
Q2025 DTC144EKA INV
Q2026 2SC2712 BUFFER
Q2032 DTC144EKA INV
X2006 18.432M
X2007 4MHz
S2001
S2002
TB2001
TB2002
J2001
RS-422
POWER ON TRIG
CONTROL-S IN
CONTROL-S OUT
SIRCS
SIRCS CCQ
WRCL
MR
5V-4
5V-2
5V
0 SET
TP2015
TP2016
TP2017
DRV
SW

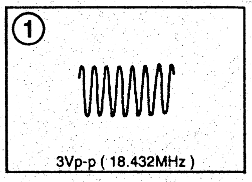
M (3/3)
(MICON)

B-SS1628<U/C>-M..-P3

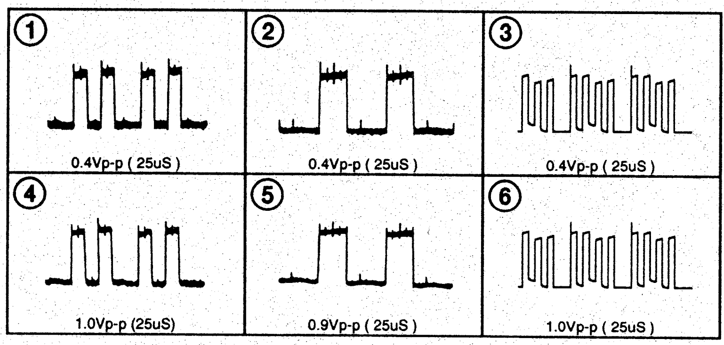

8
9
10
11
12
13
14
15
16
17
18
19
IC2032
MM1170BFB
WDT
SET RESET
VP
S2001
S2002
10
1
IC2033
7WA08F
CPU
RSO
AVCC
P67
IRQ6
P65
P64
RPT OUT
ENC BUSY
P61
WDT
IRQ2
IRQ1
VP
RD
WR
AS
IFB-SDA
VSS
PSO
PS1
PS2
VCC
STBY
NMI
MD0
MD1
EXTAL
XTAL
RESET
IFB-SCL
RXD1
TXD1
PB3
PB2
PB1
16550 /S.ENC
VSS
D7
D6
X2005
9.83M
IC2049
TC74HC273AF
D.FF WITH CLR
D2093
DAP202K
IC2050
μPD17215GT-723
SIRCS-ENCODER
X2007
4MHz
D2119
DAN202K
IC2035
PC16550DV
S/P CONV
X2006
8.432M
IC2041
TC7S00F
NAND
D2088
D2089
D2090
D2091
D2092
D2094
D2095
D2096
RD5.6SB2
D2126
RD6.2SB2
D2122
MA157-T
IC2036
TC7S04FU
INV
IC2037 (1/4)
IC2037 (2/4)
IC2037 (3/4)
IC2037 (4/4)
TC74HC32AF
OR
COMM
IC2031
M27C512
UVEPROM
IC2055
TC74HC00F
NAND
SIRCS H
SIRCS N
F
R
IC2052
TC7W08FU
AND
IC2053
TC7W241FU
3STATE BUFFER
IC2054
TC7W66F
A.SW
D2121
DAP202K
D2120
DAN202K
Q2017
DTC144EKA
INV
Q2020
DTC144EKA
INV
Q2024
DTC144EKA
INV
Q2025
DTC144EKA
INV
IC2038 (1/2)
IC2038 (2/2)
NJM2904M
OP AMP
IC2042 (1/4)
IC2042 (2/4)
IC2042 (3/4)
IC2042 (4/4)
NJM2901M
COMPARATOR
D SET
TP2015
RV2001
22k
WRCL
D2097
DAP202K
Q2016
DTC144EKA
SW
Q2018
2SA1162
SW
Q2023
2SB1440S
SW
TP2016
Q2021
DTC144EKA
DRIVER
Q2022
DTC144EKA
DRIVER
DRV
TP2017
Q2032
DTC144EKA
INV
IC2046
TC7W74F
D.FF
5V
SW
5V-4
5V-2
MR

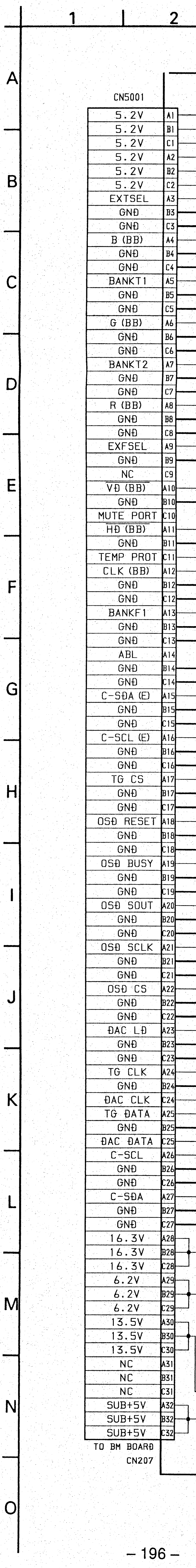

19
20
21
22
5V-2
D2111
DAP202K
R2277
R2355
R2278
J2001
POWER ON TRIG
D2110
RD5.6SB2
S2002
D2126
RD6.2SB2
D2123
MA157-TX
D2125
MA157-TX
D2127
RD5.6SB2
TB2001
RS-422
D2122
MA157-TX
D2124
MA157-TX
R2265
R2266
IC2045
MAX489ECSD
INTERFACE
5V-4
C2137
R2267
R2268
NC
VCC
RO
RE
DE
DI
GND
RX
TX
R2269
R2270
R2271
R2272
C2127
R2262
R2263
D2105
RD5.6SB
5V
TB2002
CONTROL-S IN
CONTROL-S OUT
IC2042 (3/4)
NJM2901M
COMPARATOR
IC2042 (4/4)
R2257
R2259
R2292
R2297
C2142
R2258
R2260
D2109
MA157-TX
D2108
MA157-TX
C2143
R2299
R2261
PR
CLR
Q
R2296
R2274
C2147
D2103
DAN202K
R2275
R2276
R2255
R2256
SIRCS
R2249
Q2025
DTC144EKA
INV
R2250
Q2026
2SC2712
BUFFER
R2264
R2254
D2106
MA157-TX
C2169
SIRCS CCQ
M (3/3)
(MICON)
B-SS1628<U/C>-M..-P3

M (3/3) BOARD


①
3Vp-p (18.432MHz)

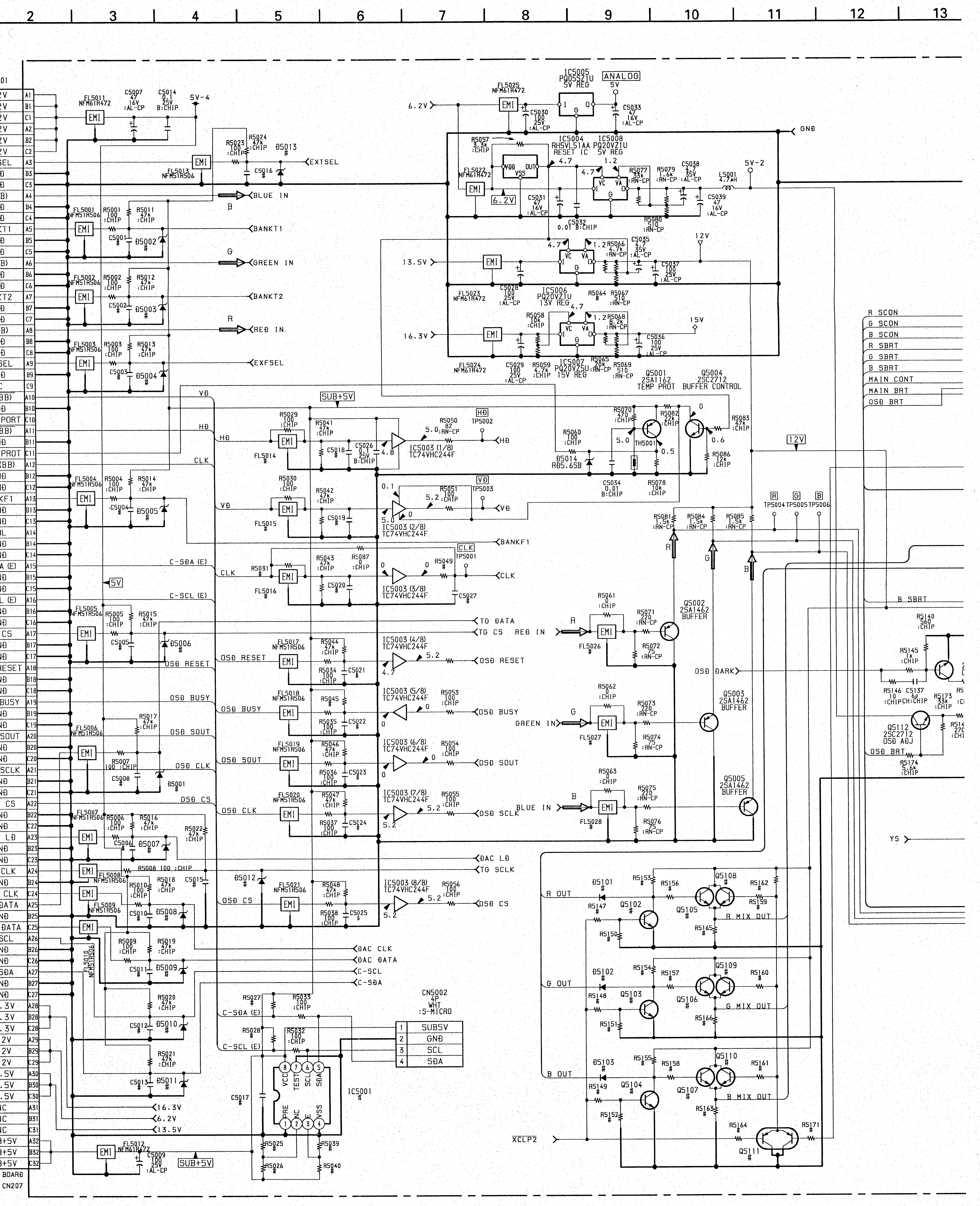
C (1/3) BOARD



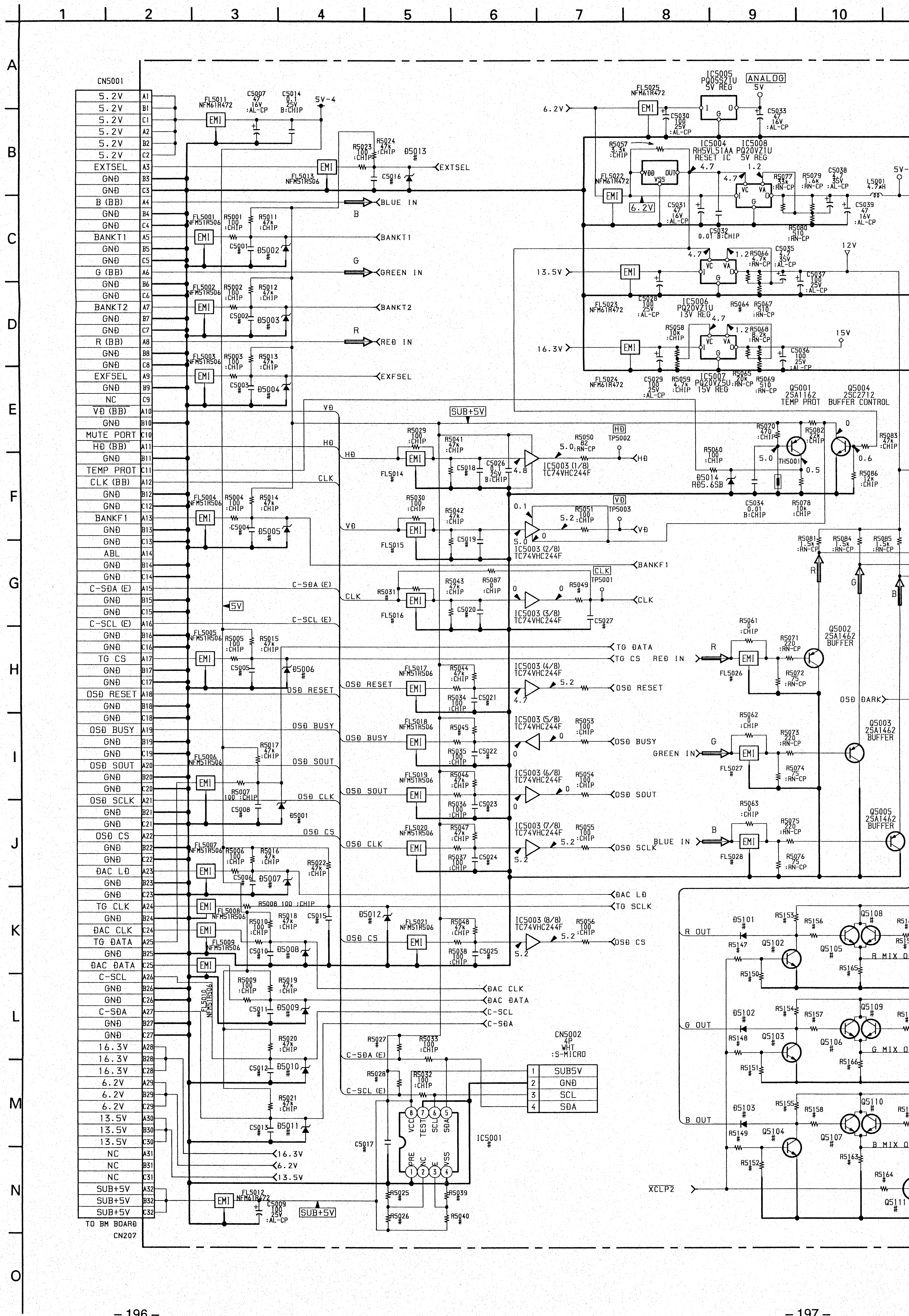

1
2
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN5001
5.2V A1
5.2V B1
5.2V C1
5.2V A2
5.2V B2
5.2V C2
EXTSEL A3
GND B3
GND C3
B (BB) A4
GND B4
GND C4
BANKT1 A5
GND B5
GND C5
G (BB) A6
GND B6
GND C6
BANKT2 A7
GND B7
GND C7
R (BB) A8
GND B8
GND C8
EXFSEL A9
GND B9
NC C9
VD (BB) A10
GND B10
MUTE PORT C10
HD (BB) A11
GND B11
TEMP PROT C11
CLK (BB) A12
GND B12
GND C12
BANKF1 A13
GND B13
GND C13
ABL A14
GND B14
GND C14
C-SDA (E) A15
GND B15
GND C15
C-SCL (E) A16
GND B16
GND C16
TG CS A17
GND B17
GND C17
OSD RESET A18
GND B18
GND C18
OSD BUSY A19
GND B19
GND C19
OSD SOUT A20
GND B20
GND C20
OSD SCLK A21
GND B21
GND C21
OSD CS A22
GND B22
GND C22
DAC LD A23
GND B23
GND C23
TG CLK A24
GND B24
DAC CLK C24
TG DATA A25
GND B25
DAC DATA C25
C-SCL A26
GND B26
GND C26
C-SDA A27
GND B27
GND C27
16.3V A28
16.3V B28
16.3V C28
6.2V A29
6.2V B29
6.2V C29
13.5V A30
13.5V B30
13.5V C30
NC A31
NC B31
NC C31
SUB+5V A32
SUB+5V B32
SUB+5V C32
TO BM BOARD
CN207

Schematic diagram
← M(3/3) board

Schematic diagram
C(1/3) board →

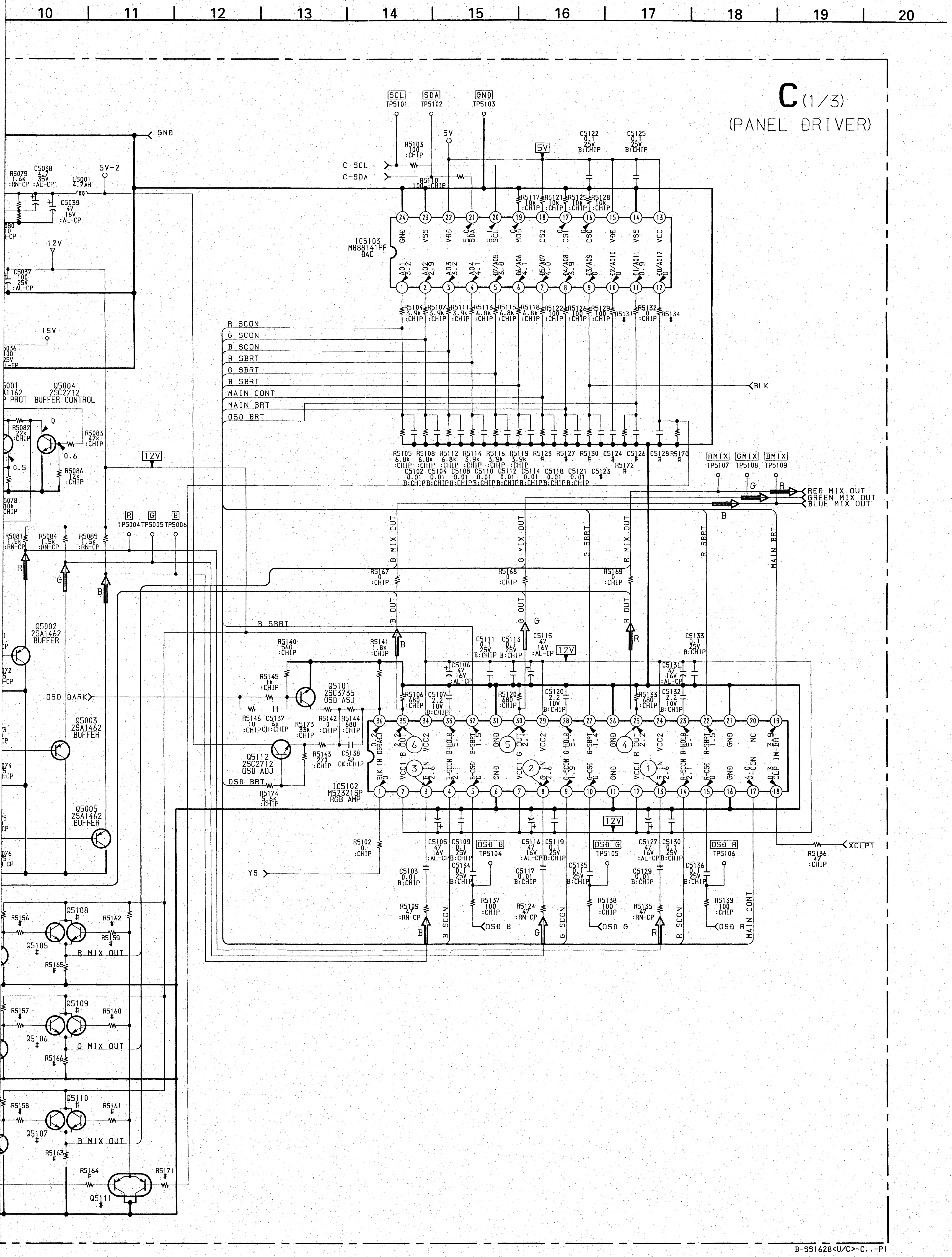


2
3
4
5
6
7
8
9
10
11
12
13
IC5005 PQ05SZ1U 5V REG
ANALOG 5V
FL5025 NFM61R472
C5030 100 25V :AL-CP
C5033 47 16V :AL-CP
6.2V
GND
IC5004 RH5VL51AA RESET IC
IC5008 PQ20VZ1U 5V REG
R5057 3.3k :CHIP
FL5022 NFM61R472
5V-2
L5001 4.7μH
C5039 47 16V :AL-CP
C5031 47 16V :AL-CP
C5032 0.01 B:CHIP
R5080 510 :RN-CP
12V
13.5V
FL5023 NFM61R472
IC5006 PQ20VZ1U 13V REG
16.3V
FL5024 NFM61R472
IC5007 PQ20VZ5U 15V REG
15V
Q5001 2SA1162 TEMP PROT
Q5004 2SC2712 BUFFER CONTROL
R SCON
G SCON
B SCON
R SBRT
G SBRT
B SBRT
MAIN CONT
MAIN BRT
OSD BRT
FL5011 NFM61R472
C5007 47 16V :AL-CP
C5014 0.1 25V B:CHIP
5V-4
FL5013 NFM51R506
R5023 100 :CHIP
R5024 47k :CHIP
D5013
EXTSEL
BLUE IN
BANKT1
GREEN IN
BANKT2
RED IN
EXFSEL
FL5001 NFM51R506
FL5002 NFM51R506
FL5003 NFM51R506
FL5004 NFM51R506
FL5005 NFM51R506
FL5006 NFM51R506
FL5007 NFM51R506
FL5008 NFM51R506
FL5009 NFM51R506
FL5010 NFM51R506
FL5012 NFM61R472
C5009 100 25V :AL-CP
SUB+5V
5V
VD
HD
CLK
C-SDA (E)
C-SCL (E)
OSD RESET
OSD BUSY
OSD SOUT
OSD CLK
OSD CS
IC5003 (1/8) TC74VHC244F
IC5003 (2/8) TC74VHC244F
IC5003 (3/8) TC74VHC244F
IC5003 (4/8) TC74VHC244F
IC5003 (5/8) TC74VHC244F
IC5003 (6/8) TC74VHC244F
IC5003 (7/8) TC74VHC244F
IC5003 (8/8) TC74VHC244F
TP5001
TP5002
TP5003
BANKF1
TG DATA
TG CS
OSD SCLK
DAC LD
TG SCLK
DAC CLK
DAC DATA
C-SCL
C-SDA
CN5002 4P WHT :S-MICRO
1 SUB5V
2 GND
3 SCL
4 SDA
IC5001
VCC TEST SCL SDA
PRE NC E VSS
16.3V
6.2V
13.5V
BOARD CN207
Q5002 2SA1462 BUFFER
Q5003 2SA1462 BUFFER
Q5005 2SA1462 BUFFER
FL5026
FL5027
FL5028
OSD DARK
TP5004 TP5005 TP5006
Q5112 2SC2712 OSD ADJ
YS
R OUT
G OUT
B OUT
R MIX OUT
G MIX OUT
B MIX OUT
XCLP2
Q5111

CN5001
5.2V
5.2V
5.2V
5.2V
5.2V
5.2V
EXTSEL
B (BB)
BANKT1
G (BB)
BANKT2
R (BB)
EXFSEL
NC
VD (BB)
MUTE PORT
HD (BB)
TEMP PROT
CLK (BB)
BANKF1
ABL
C-SDA (E)
C-SCL (E)
TG CS
OSD RESET
OSD BUSY
OSD SOUT
OSD SCLK
OSD CS
DAC LD
TG CLK
DAC CLK
TG DATA
DAC DATA
C-SCL
C-SDA
16.3V
6.2V
13.5V
SUB+5V
GND
TO BM BOARD
CN207
FL5011
NFM61R472
C5007
47
16V
:AL-CP
C5014
0.1
25V
B:CHIP
5V-4
FL5013
NFM51R506
R5023
R5024
D5013
EXTSEL
C5016
BLUE IN
GREEN IN
RED IN
BANKT1
BANKT2
EXFSEL
BANKF1
SUB+5V
5V
IC5005
PQ05SZ1U
5V REG
ANALOG
FL5025
NFM61R472
C5030
C5033
6.2V
IC5004
RH5VL51AA
RESET IC
IC5008
PQ20VZ1U
5V REG
FL5022
NFM61R472
L5001
4.7μH
C5038
C5039
12V
13.5V
FL5023
NFM61R472
IC5006
PQ20VZ1U
13V REG
16.3V
FL5024
NFM61R472
IC5007
PQ20VZ5U
15V REG
15V
Q5001
2SA1162
TEMP PROT
Q5004
2SC2712
BUFFER CONTROL
D5014
RD5.6SB
TH5001
IC5003 (1/8)
TC74VHC244F
IC5003 (2/8)
TC74VHC244F
IC5003 (3/8)
TC74VHC244F
IC5003 (4/8)
TC74VHC244F
IC5003 (5/8)
TC74VHC244F
IC5003 (6/8)
TC74VHC244F
IC5003 (7/8)
TC74VHC244F
IC5003 (8/8)
TC74VHC244F
TP5001
TP5002
TP5003
CLK
HD
VD
TG DATA
TG CS
OSD RESET
OSD BUSY
OSD SOUT
OSD SCLK
OSD CS
OSD DARK
DAC LD
TG SCLK
DAC CLK
DAC DATA
C-SCL
C-SDA
Q5002
2SA1462
BUFFER
Q5003
2SA1462
BUFFER
Q5005
2SA1462
BUFFER
FL5026
FL5027
FL5028
R OUT
G OUT
B OUT
R MIX
G MIX
B MIX
XCLP2
CN5002
4P
WHT
:S-MICRO
SUB5V
GND
SCL
SDA
IC5001
VCC
TEST
SCL
SDA
PRE
NC
WE
VSS
FL5012
NFM61R472
C5009
100
25V
:AL-CP
SUB+5V

C (1/3)

(PANEL DRIVER)



10
11
12
13
14
15
16
17
18
19
20
IC5103
MB88141PF
DAC
IC5102
M52321SP
RGB AMP
Q5101
2SC3735
OSD ASJ
Q5112
2SC2712
OSD ADJ
Q5002
2SA1462
BUFFER
Q5003
2SA1462
BUFFER
Q5005
2SA1462
BUFFER
Q5004
2SC2712
BUFFER CONTROL
PROT
Q5105
Q5106
Q5107
Q5108
Q5109
Q5110
Q5111
SCL
TP5101
SDA
TP5102
GND
TP5103
C-SCL
C-SDA
5V
5V-2
12V
15V
GND
L5001
4.7μH
R SCON
G SCON
B SCON
R SBRT
G SBRT
B SBRT
MAIN CONT
MAIN BRT
OSD BRT
BLK
RMIX
TP5107
GMIX
TP5108
BMIX
TP5109
RED MIX OUT
GREEN MIX OUT
BLUE MIX OUT
R
G
B
TP5004
TP5005
TP5006
B MIX OUT
G MIX OUT
R MIX OUT
B OUT
G OUT
R OUT
OSD DARK
XCLPT
YS
OSD B
OSD G
OSD R
TP5104
TP5105
TP5106
B SBRT
G SBRT
R SBRT
MAIN BRT
B SCON
G SCON
R SCON
MAIN CONT
OSD BRT
GND
VSS
VDD
SDA
SCL
MOD
CS2
CS1
CS0
VDD
VSS
VCC
AO1
AO2
AO3
AO4
D7/AO5
D6/AO6
D5/AO7
D4/AO8
D3/AO9
D2/AO10
D1/AO11
D0/AO12
BLK IN
OSDADJ
VCC1
B OUT
B IN
VCC2
B-SCON
B-HOLD
B-OSD
B-SBRT
GND
VCC1
G OUT
G IN
VCC2
G-SCON
G-HOLD
G-OSD
G-SBRT
GND
VCC1
R OUT
R IN
VCC2
R-SCON
R-HOLD
R-OSD
R-SBRT
GND
M-CON
NC
CLP
IN-BRT
R5103 100 :CHIP
R5110 100 :CHIP
R5117 10k :CHIP
R5121 10k :CHIP
R5125 10k :CHIP
R5128 10k :CHIP
C5122 0.1 25V B:CHIP
C5125 0.1 25V B:CHIP
R5104 3.9k :CHIP
R5107 3.9k :CHIP
R5111 3.9k :CHIP
R5113 6.8k :CHIP
R5115 6.8k :CHIP
R5118 6.8k :CHIP
R5122 100 :CHIP
R5126 100 :CHIP
R5129 100 :CHIP
R5131 #
R5132 0 :CHIP
R5134 #
R5105 6.8k :CHIP
R5108 6.8k :CHIP
R5112 6.8k :CHIP
R5114 3.9k :CHIP
R5116 3.9k :CHIP
R5119 3.9k :CHIP
R5123 #
R5127 #
R5130 #
C5124 #
C5126 #
C5128 #
R5170 #
R5172
C5102 0.01 B:CHIP
C5104 0.01 B:CHIP
C5108 0.01 B:CHIP
C5110 0.01 B:CHIP
C5112 0.01 B:CHIP
C5114 0.01 B:CHIP
C5118 0.01 B:CHIP
C5121 0.01 B:CHIP
C5123 #
R5079 1.6k :RN-CP
C5038 4.7 35V :AL-CP
C5039 47 16V :AL-CP
C5037 100 25V :AL-CP
C5036 100 25V
R5082 22k :CHIP
R5083 47k :CHIP
R5086 12k :CHIP
R5078 10k :CHIP
R5081 1.5k :RN-CP
R5084 1.5k :RN-CP
R5085 1.5k :RN-CP
R5167 0 :CHIP
R5168 0 :CHIP
R5169 0 :CHIP
R5140 560 :CHIP
R5141 1.8k :CHIP
R5145 1k :CHIP
R5146 10 :CHIP
C5137 6p CH:CHIP
R5173 33k :CHIP
R5142 0 :CHIP
R5144 680 :CHIP
R5143 270 :CHIP
C5138 2p CK:CHIP
R5174 5.6k :CHIP
C5111 0.1 25V B:CHIP
C5113 0.1 25V B:CHIP
C5115 47 16V :AL-CP
C5106 47 16V :AL-CP
C5131 47 16V :AL-CP
C5133 0.1 25V B:CHIP
R5106 680 :CHIP
C5107 2.2 10V B:CHIP
R5120 680 :CHIP
C5120 2.2 10V B:CHIP
R5133 680 :CHIP
C5132 2.2 10V B:CHIP
R5102 0 :CHIP
C5105 47 16V :AL-CP
C5109 0.1 25V B:CHIP
C5134 0.1 25V B:CHIP
C5103 0.01 B:CHIP
C5116 47 16V :AL-CP
C5119 0.1 25V B:CHIP
C5117 0.01 B:CHIP
C5135 0.1 25V B:CHIP
C5127 47 16V :AL-CP
C5130 0.1 25V B:CHIP
C5129 0.01 B:CHIP
C5136 0.1 25V B:CHIP
R5109 47 :RN-CP
R5137 100 :CHIP
R5124 47 :RN-CP
R5138 100 :CHIP
R5135 47 :RN-CP
R5139 100 :CHIP
R5136 47 :CHIP
R5156 #
R5157 #
R5158 #
R5159 #
R5160 #
R5161 #
R5162 #
R5163 #
R5164 #
R5165 #
R5166 #
R5171 #

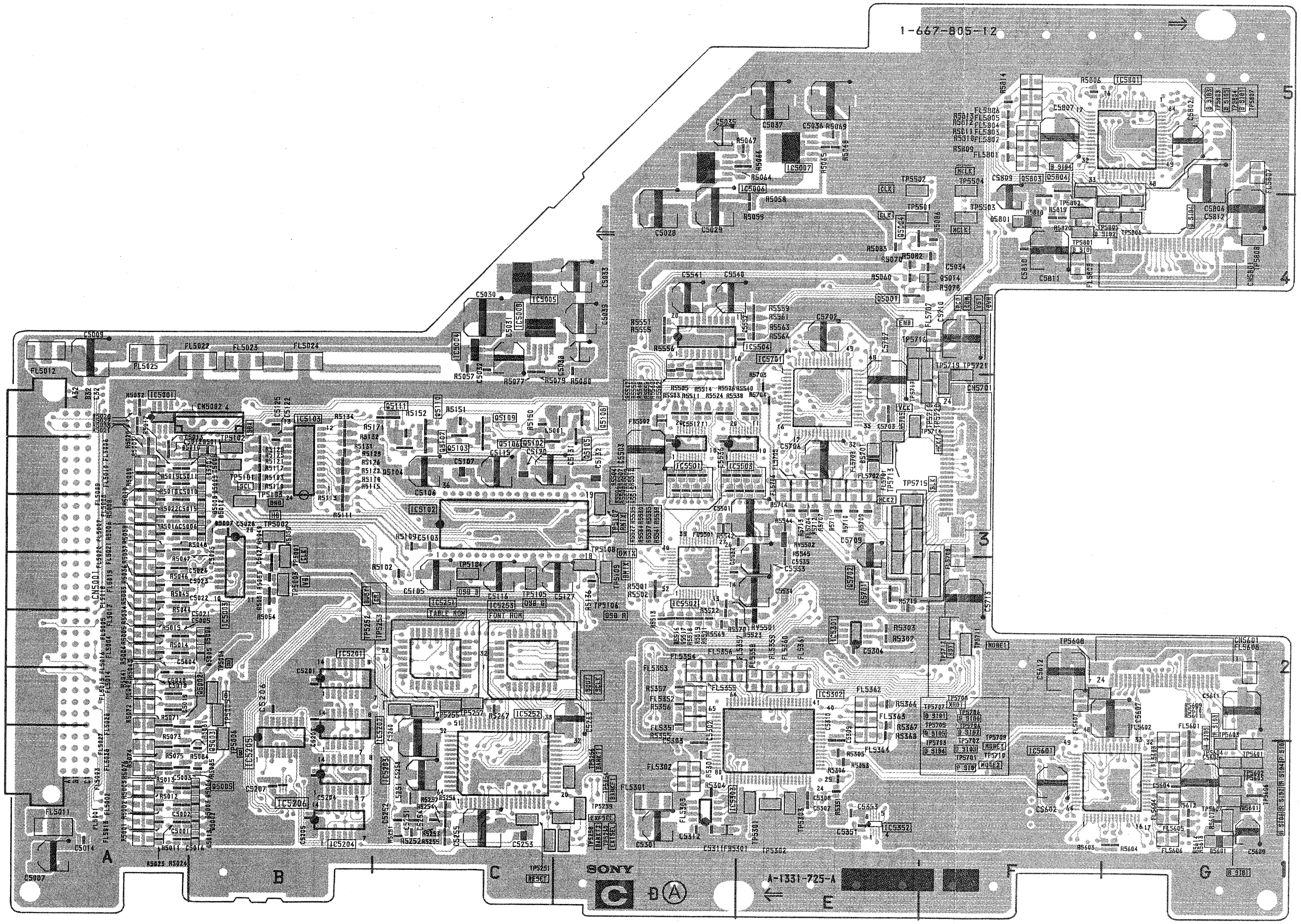
B-SS1628<U/C>-C..-P1

C [PANEL DRIVER, OSD]

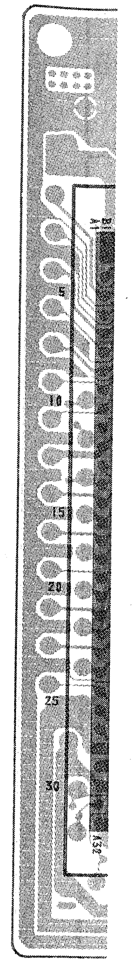
C BOARD
(A SIDE)

IC	
IC5003	B–2
IC5004	C–4
IC5005	C–4
IC5006	D–5
IC5007	E–5
IC5008	C–4
IC5102	C–3
IC5103	B–3
IC5201	B–2
IC5202	B–2
IC5203	B–1
IC5204	B–1
IC5205	B–1
IC5206	B–1
IC5251	C–2
IC5252	C–1
IC5253	C–2
IC5301	E–2
IC5302	E–2
IC5352	E–1
IC5501	D–3
IC5502	D–2
IC5503	E–3
IC5504	D–4
IC5601	G–1
IC5701	E–3
IC5801	G–5
TRANSISTOR	
Q5001	E–4
Q5002	A–2
Q5003	A–1
Q5004	E–4
Q5005	A–1
Q5601	G–1
Q5701	E–2
Q5702	E–2
Q5803	F–5
Q5804	F–5
DIODE	
D5014	F–4
D5601	G–1
D5701	E–3
D5801	F–4

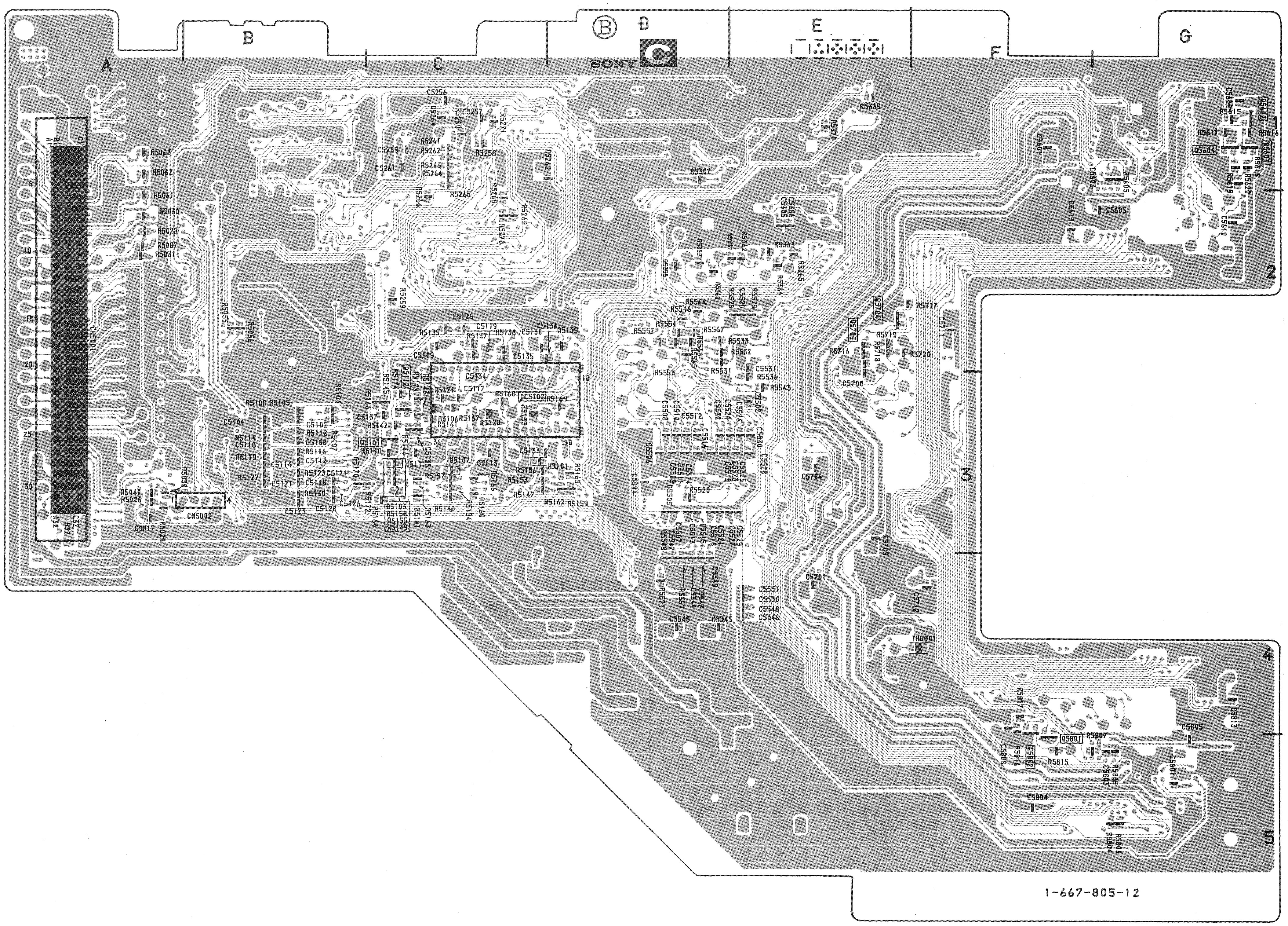
– **C BOARD** – <A Side>



<B Side>



<B Side>


A
B
C
D
E
F
G
1
2
3
4
5
SONY
C
IC5102
CN5001
CN5002
1-667-805-12

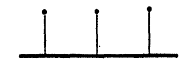
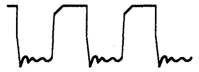
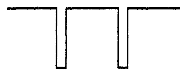
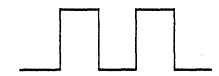
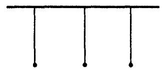
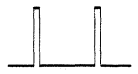
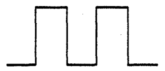
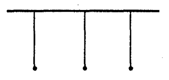
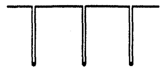
C BOARD
(B SIDE)

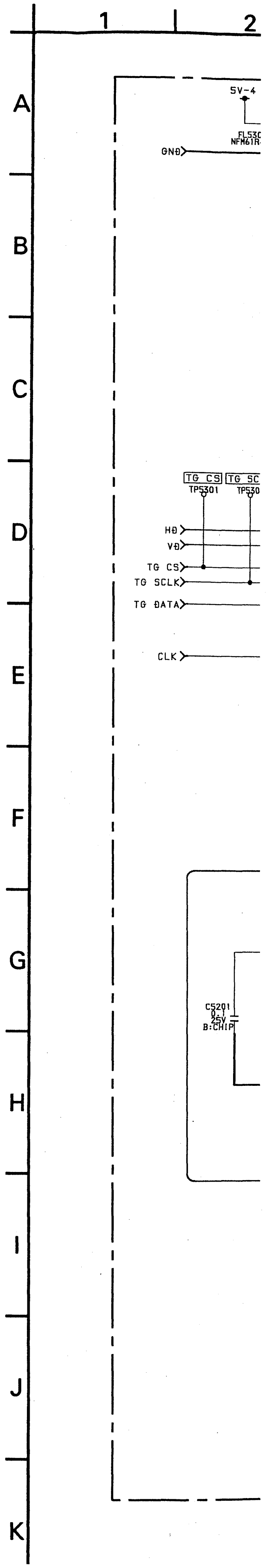
IC	
IC5102	C–3
TRANSISTOR	
Q5101	C–3
Q5112	C–3
Q5602	G–1
Q5603	G–1
Q5604	G–1
Q5703	E–2
Q5704	E–2
Q5801	F–5
Q5802	F–5
DIODE	
D5101	C–3
D5102	C–3
D5103	C–3

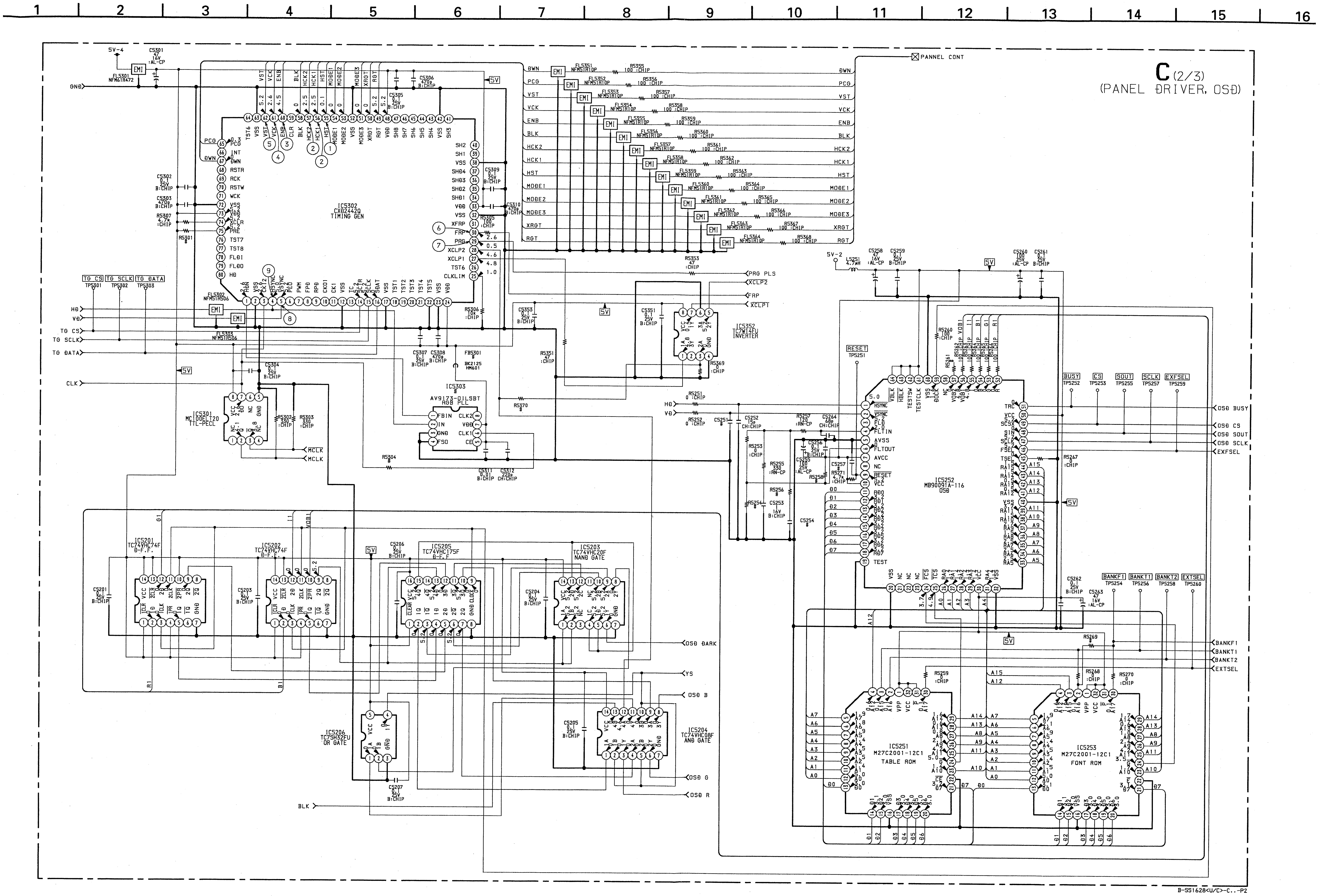
Schematic diagram

C(2/3) board ➡

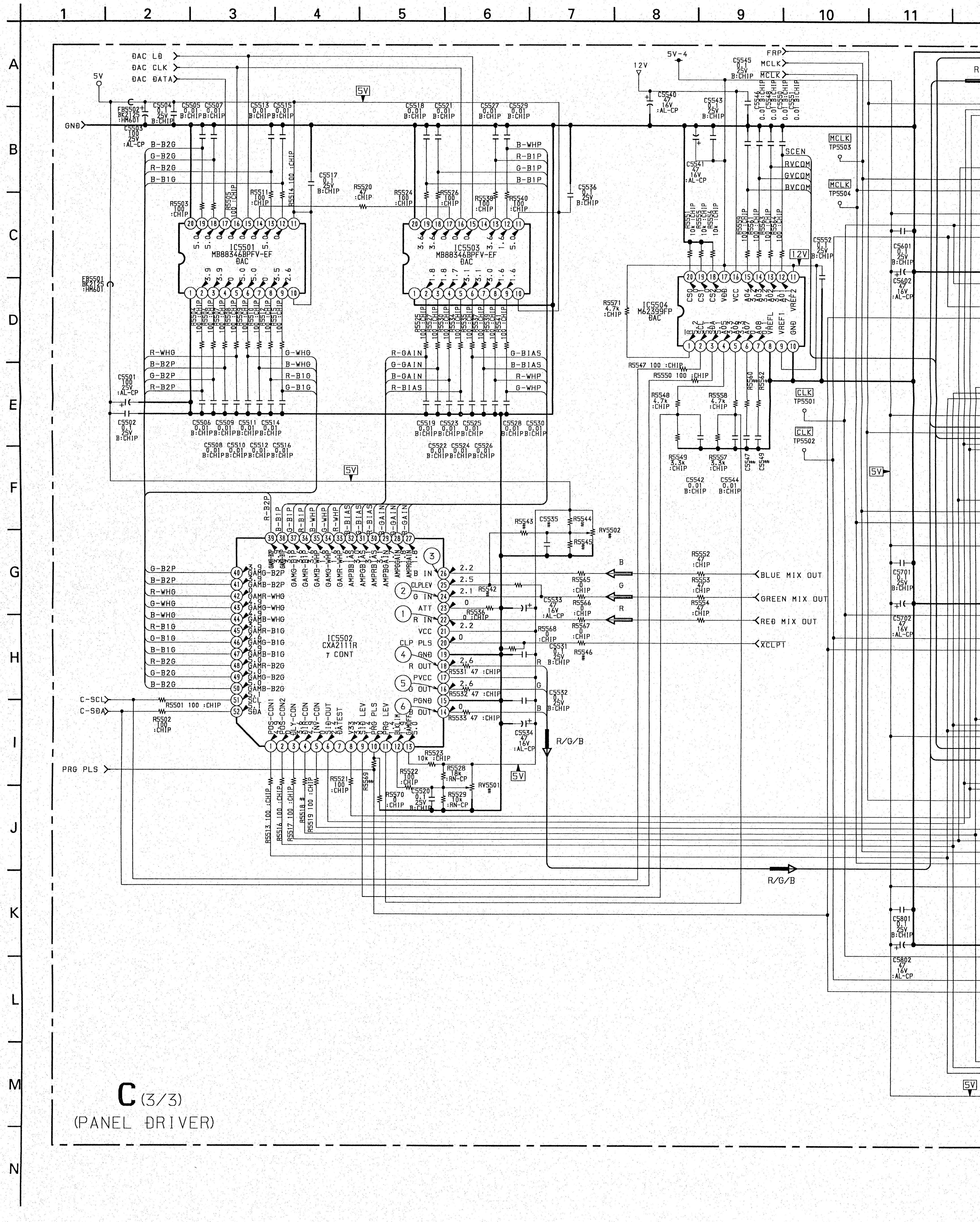
C (2/3) BOARD

①  5.0Vp-p (25uS)	②  6.0Vp-p (0.42uS)	③  5.0Vp-p (25uS)
④  5.0Vp-p (50uS)	⑤  5.0Vp-p (V)	⑥  5.0Vp-p (26uS)
⑦  5.0Vp-p (50uS)	⑧  5.0Vp-p (V)	⑨  5.0Vp-p (28uS)

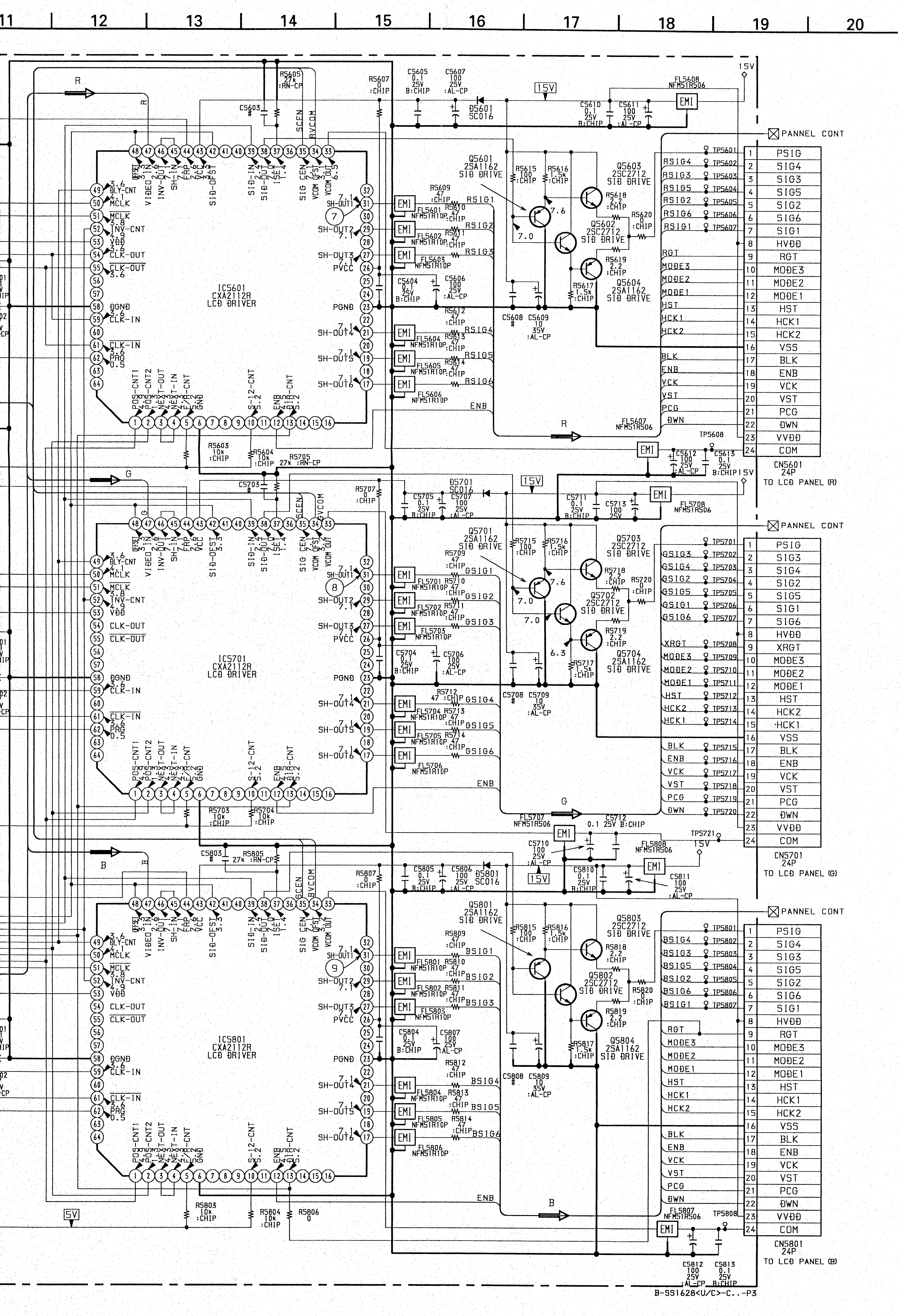

1
2
A
B
C
D
E
F
G
H
I
J
K
5V-4
FL530
NFM61R
GND
TG CS
TP5301
TG SC
TP530
HD
VD
TG CS
TG SCLK
TG DATA
CLK
C5201
0.1
25V
B:CHIP


C (2/3)
(PANEL DRIVER, OSD)
IC5302 CXD2442Q TIMING GEN
IC5352 TC7W14FU INVERTER
IC5303 AV9173-01LSBT RGB PLL
IC5301 MC100ELT20 TTL-PECL
IC5252 MB90091A-116 OSD
IC5201 TC74VHC74F D-F.F.
IC5202 TC74VHC74F D-F.F.
IC5205 TC74VHC175F D-F.F
IC5203 TC74VHC20F NAND GATE
IC5206 TC7SH32FU OR GATE
IC5204 TC74VHC08F AND GATE
IC5251 M27C2001-12C1 TABLE ROM
IC5253 M27C2001-12C1 FONT ROM
PANNEL CONT
5V-4
GND
HD
VD
TG CS
TG SCLK
TG DATA
CLK
MCLK
PRG PLS
XCLP2
FRP
XCLP1
DWN
PCG
VST
VCK
ENB
BLK
HCK2
HCK1
HST
MODE1
MODE2
MODE3
XRGT
RGT
OSD BUSY
OSD CS
OSD SOUT
OSD SCLK
EXFSEL
BANKF1
BANKT1
BANKT2
EXTSEL
OSD DARK
YS
OSD B
OSD G
OSD R
BLK
RESET
BUSY
CS
SOUT
SCLK
5V-2

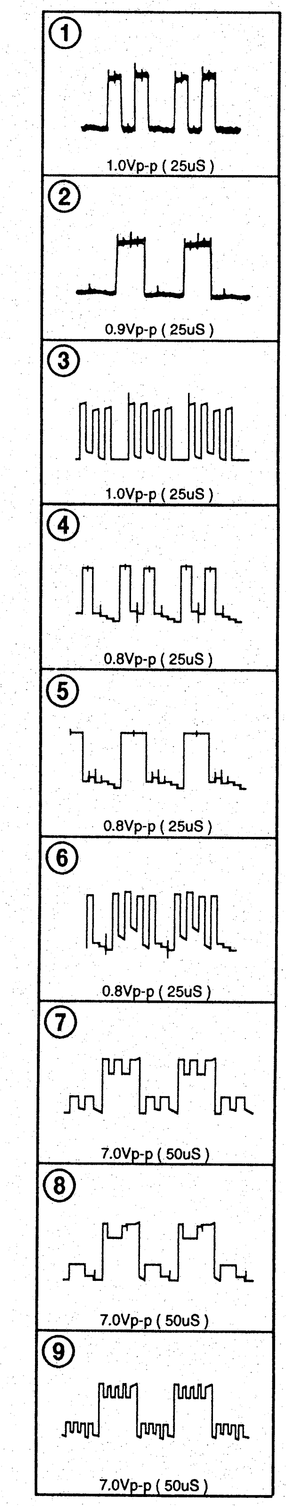
B-SS1628<U/C>-C..-P2


DAC LB
DAC CLK
DAC DATA
5V
GND
IC5501 MB88346BPFV-EF DAC
IC5503 MB88346BPFV-EF DAC
IC5502 CXA2111R Y CONT
IC5504 M62399FP DAC
C-SCL
C-SDA
PRG PLS
BLUE MIX OUT
GREEN MIX OUT
RED MIX OUT
XCLPT
R/G/B
12V
5V-4
FRP
MCLK
SCEN
RVCOM
GVCOM
BVCOM
TP5501
TP5502
TP5503
TP5504
FB5501 BK2125 :HM601
FB5502 BK2125 :HM601
RV5501
RV5502

C (3/3)
(PANEL DRIVER)


11
12
13
14
15
16
17
18
19
20
IC5601
CXA2112R
LCD DRIVER
IC5701
CXA2112R
LCD DRIVER
IC5801
CXA2112R
LCD DRIVER
Q5601
2SA1162
SID DRIVE
Q5602
2SC2712
SID DRIVE
Q5603
2SC2712
SID DRIVE
Q5604
2SA1162
SID DRIVE
Q5701
2SA1162
SID DRIVE
Q5702
2SC2712
SID DRIVE
Q5703
2SC2712
SID DRIVE
Q5704
2SA1162
SID DRIVE
Q5801
2SA1162
SID DRIVE
Q5802
2SC2712
SID DRIVE
Q5803
2SC2712
SID DRIVE
Q5804
2SA1162
SID DRIVE
D5601
SC016
D5701
SC016
D5801
SC016
15V
5V
R
G
B
PANNEL CONT
CN5601
24P
TO LCD PANEL (R)
CN5701
24P
TO LCD PANEL (G)
CN5801
24P
TO LCD PANEL (B)
PSIG
SIG4
SIG3
SIG5
SIG2
SIG6
SIG1
HVDD
RGT
XRGT
MODE3
MODE2
MODE1
HST
HCK1
HCK2
VSS
BLK
ENB
VCK
VST
PCG
DWN
VVDD
COM
B-SS1628<U/C>-C..-P3

C (3/3) BOARD



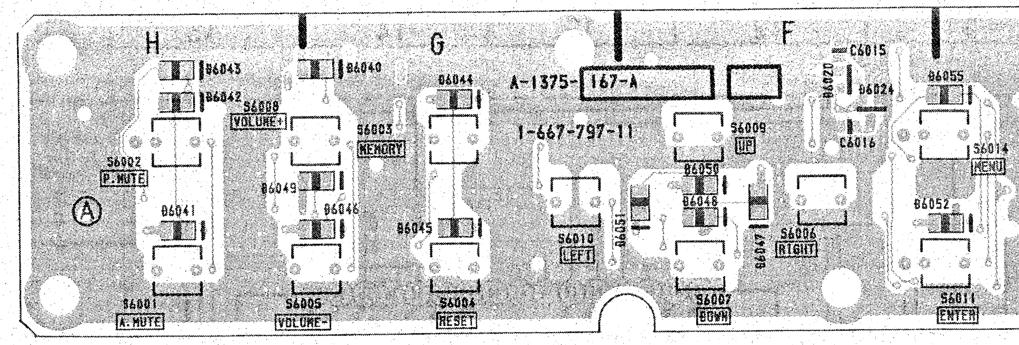
Schematic diagram
← C(3/3) board

Schematic diagram
H board →

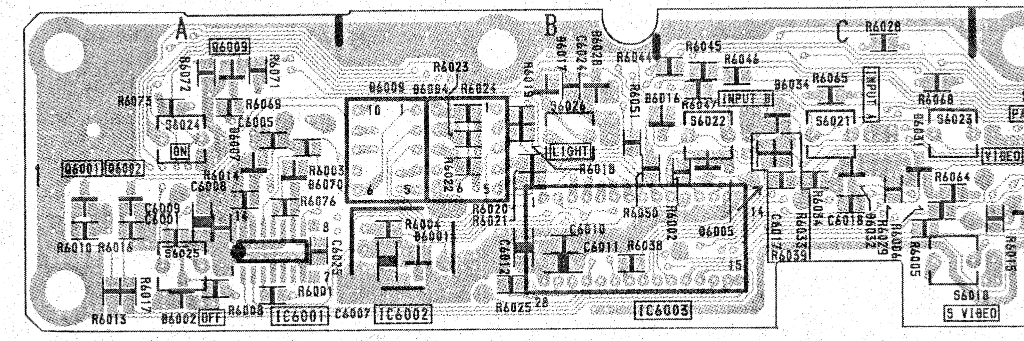
H [CONTROL PANEL]

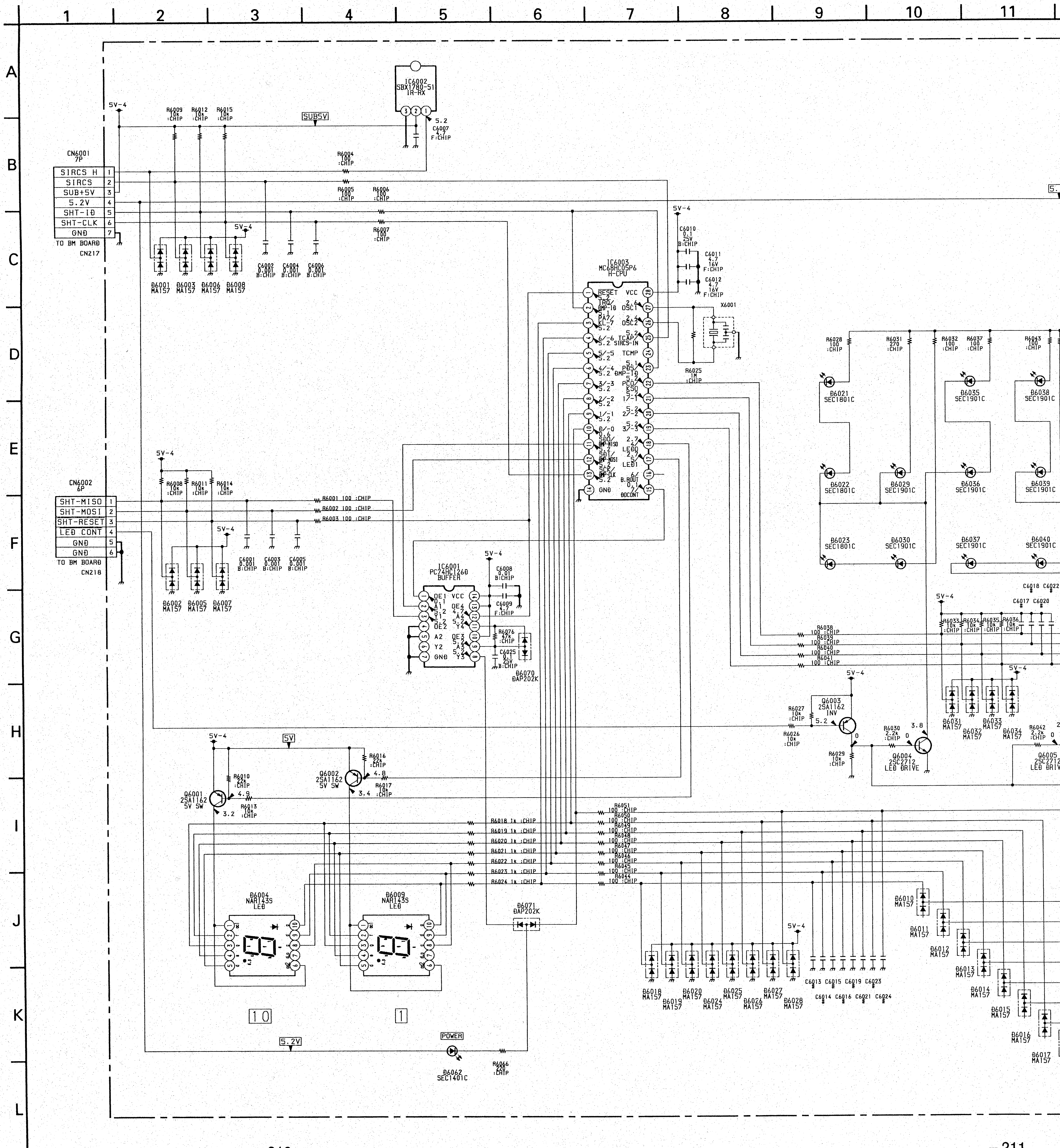
– H BOARD –

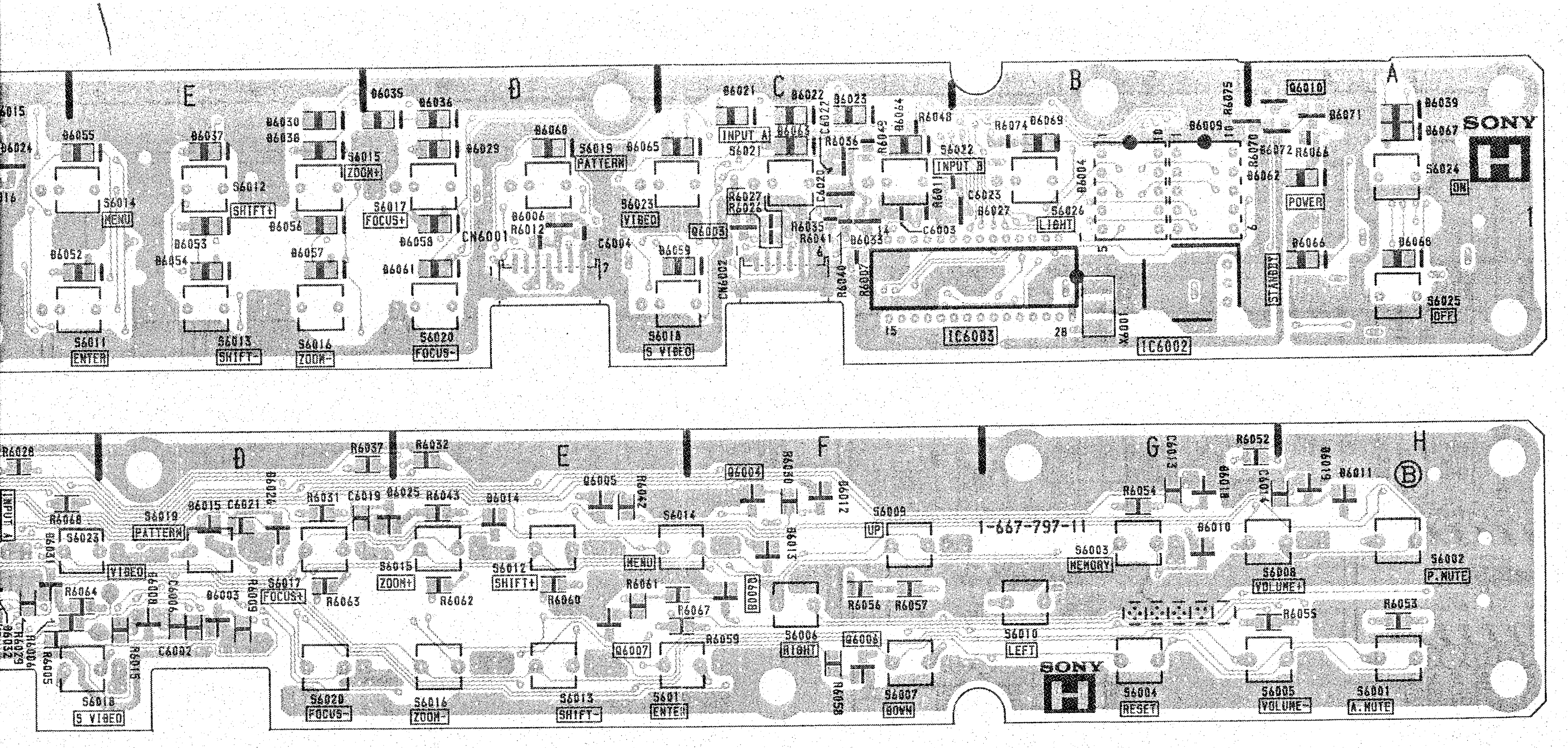
<A Side>

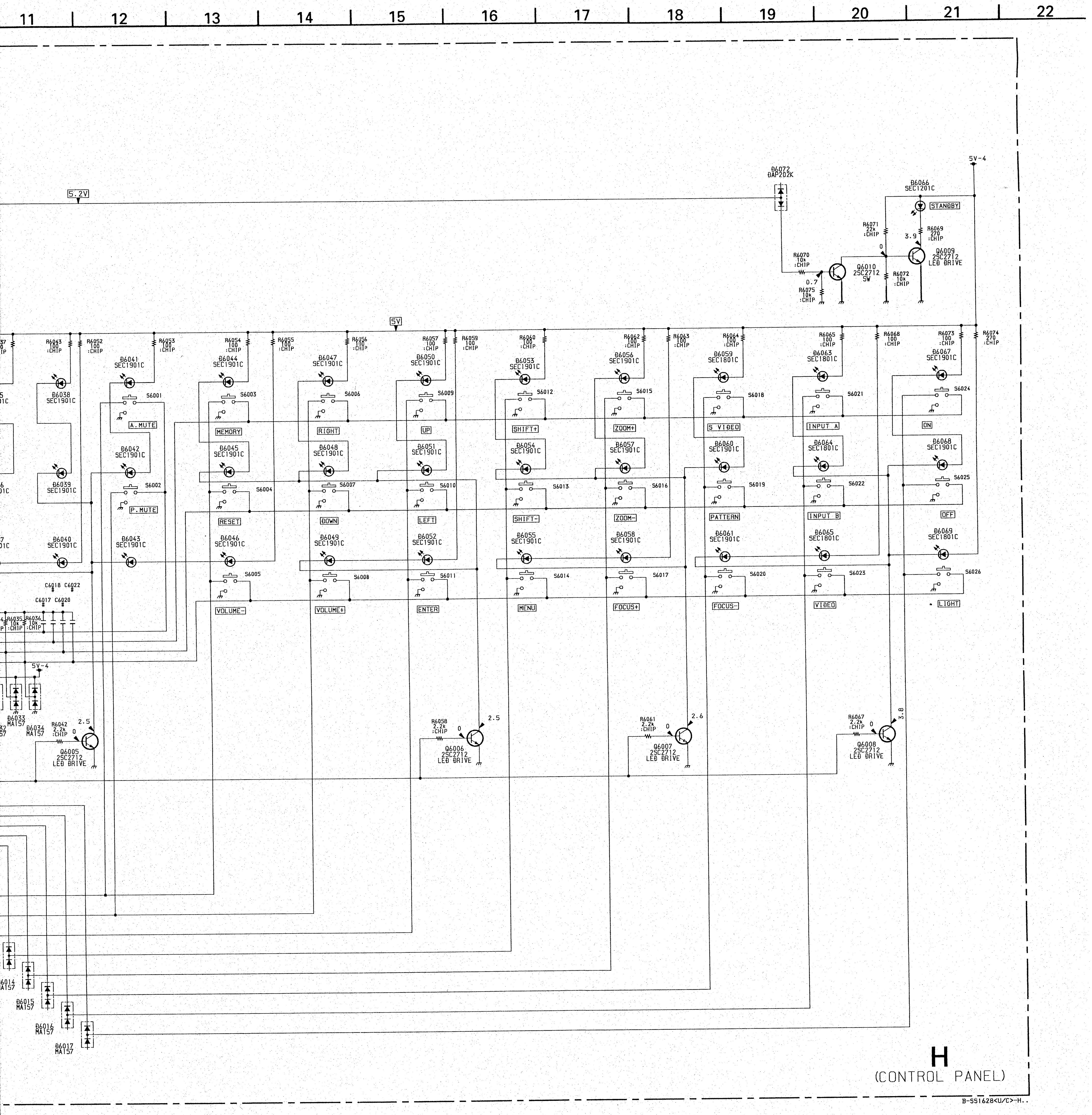

A-1375-167-A
1-667-797-11
S6001 A.MUTE
S6002 P.MUTE
S6003 MEMORY
S6004 RESET
S6005 VOLUME-
S6008 VOLUME+
S6009 UP
S6007 DOWN
S6010 LEFT
S6006 RIGHT
S6011 ENTER
S6014 MENU

<B Side>


IC6001
IC6002
IC6003
S6018 S VIDEO
INPUT B
INPUT A
VIDEO
LIGHT
ON
OFF


CN6001 7P
SIRCS H
SIRCS
SUB+5V
5.2V
SHT-ID
SHT-CLK
GND
TO BM BOARD CN217
CN6002 6P
SHT-MISO
SHT-MOSI
SHT-RESET
LED CONT
GND
GND
TO BM BOARD CN218
IC6002 SBX1780-51 IR-RX
IC6003 MC68HC05P6 H-CPU
IC6001 PC74HC126D BUFFER
X6001
Q6001 2SA1162 5V SW
Q6002 2SA1162 5V SW
Q6003 2SA1162 INV
Q6004 2SC2712 LED DRIVE
Q6005 2SC2712 LED DRIVE
D6004 NAR143S LED
D6009 NAR143S LED
D6062 SEC1401C
D6070 DAP202K
D6071 DAP202K
POWER
SUBSV
5V
5.2V
5V-4
10
1


SONY
H
1-667-797-11
IC6003
IC6002
CN6001
X6001
S6001 A.MUTE
S6002 P.MUTE
S6003 MEMORY
S6004 RESET
S6005 VOLUME-
S6006 RIGHT
S6007 DOWN
S6008 VOLUME+
S6009 UP
S6010 LEFT
S6011 ENTER
S6012 SHIFT+
S6013 SHIFT-
S6014 MENU
S6015 ZOOM+
S6016 ZOOM-
S6017 FOCUS+
S6018 S VIDEO
S6019 PATTERN
S6020 FOCUS-
S6021 INPUT A
S6022 INPUT B
S6023 VIDEO
S6024 ON
S6025 OFF
S6026 LIGHT
STANDBY
POWER
A
B
C
D
E
F
G
H


11
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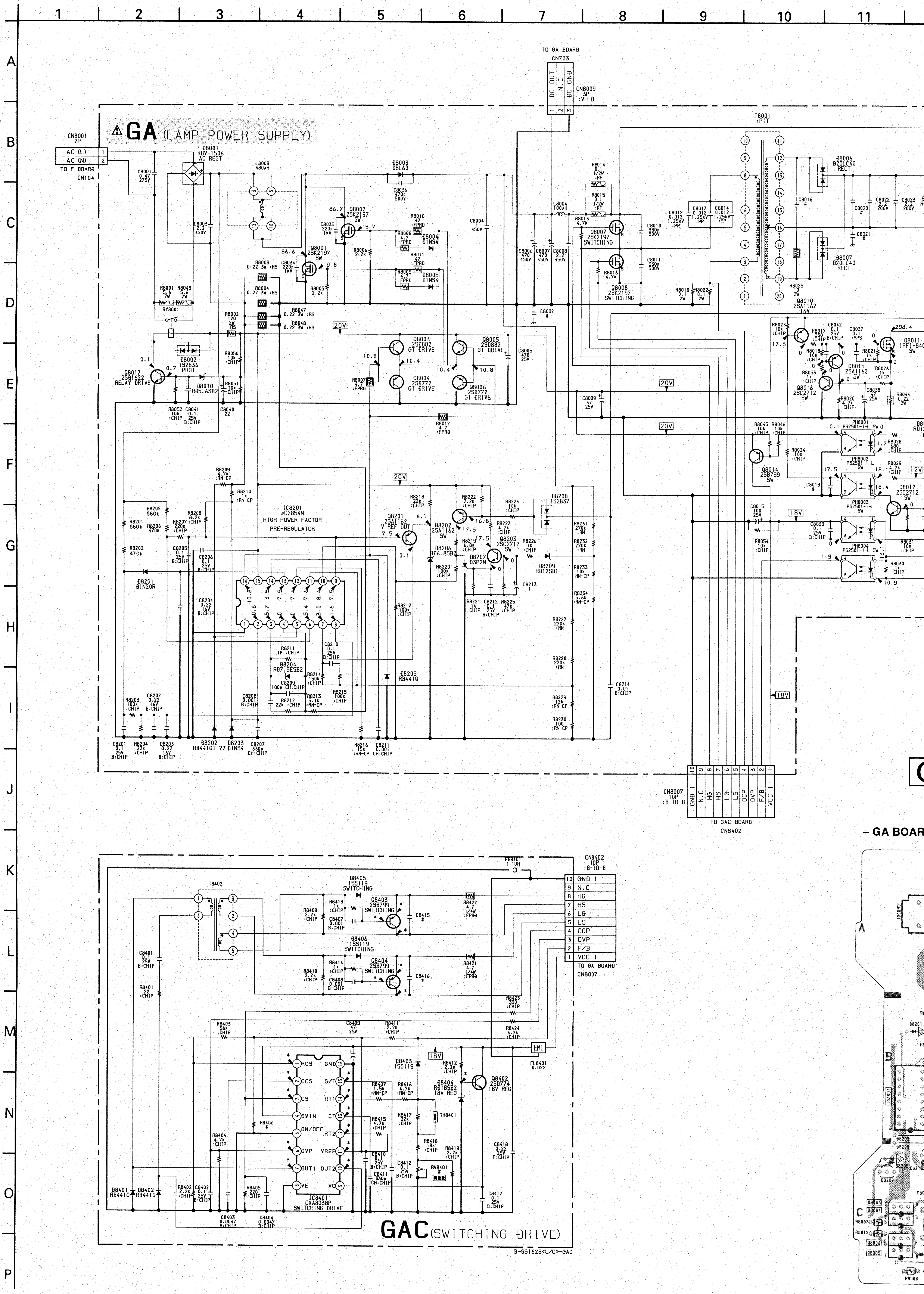
19
20
21
22
5.2V
5V
5V-4
D6072 DAP202K
D6066 SEC1201C
STANDBY
Q6010 2SC2712 SW
Q6009 2SC2712 LED DRIVE
Q6005 2SC2712 LED DRIVE
Q6006 2SC2712 LED DRIVE
Q6007 2SC2712 LED DRIVE
Q6008 2SC2712 LED DRIVE
D6014 MA157
D6015 MA157
D6016 MA157
D6017 MA157
D6033 MA157
D6034 MA157
C6017 C6018 C6020 C6022
D6038 SEC1901C
D6039 SEC1901C
D6040 SEC1901C
D6041 SEC1901C
D6042 SEC1901C
D6043 SEC1901C
D6044 SEC1901C
D6045 SEC1901C
D6046 SEC1901C
D6047 SEC1901C
D6048 SEC1901C
D6049 SEC1901C
D6050 SEC1901C
D6051 SEC1901C
D6052 SEC1901C
D6053 SEC1901C
D6054 SEC1901C
D6055 SEC1901C
D6056 SEC1901C
D6057 SEC1901C
D6058 SEC1901C
D6059 SEC1801C
D6060 SEC1901C
D6061 SEC1901C
D6063 SEC1801C
D6064 SEC1801C
D6065 SEC1801C
D6067 SEC1901C
D6068 SEC1801C
D6069 SEC1801C
A.MUTE
P.MUTE
MEMORY
RESET
VOLUME-
RIGHT
DOWN
VOLUME+
UP
LEFT
ENTER
SHIFT+
SHIFT-
MENU
ZOOM+
ZOOM-
FOCUS+
S VIDEO
PATTERN
FOCUS-
INPUT A
INPUT B
VIDEO
ON
OFF
LIGHT

H
(CONTROL PANEL)

B-SS1628<U/C>-H..



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A
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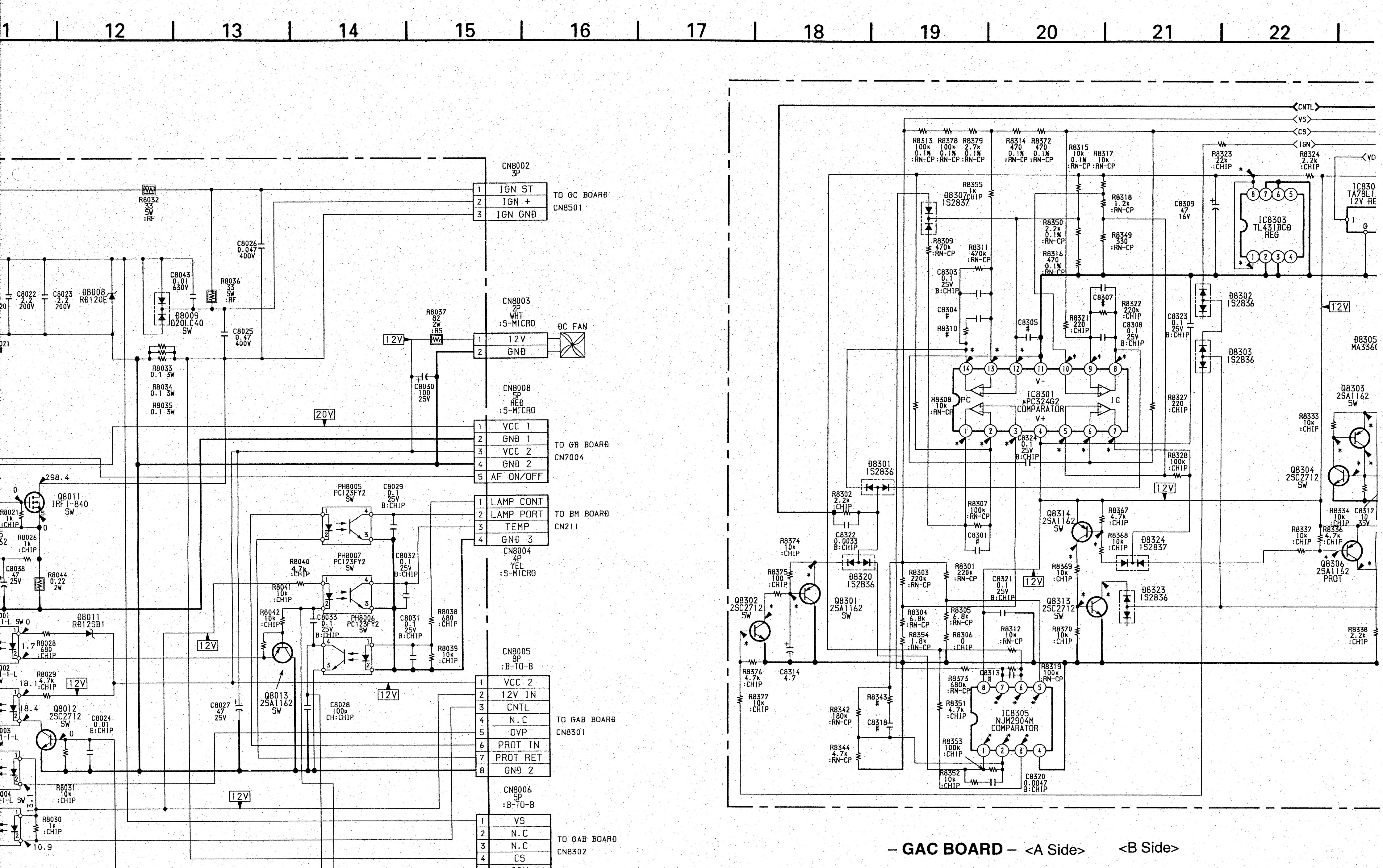
I
J
K
L
M
N
O
P
⚠GA (LAMP POWER SUPPLY)
CN8001 2P
AC (L)
AC (N)
TO F BOARD CN104
D8001 RBV-1506 AC RECT
C8001 0.47 275V
C8003 2.2 450V
L8003 480µH
D8003 DBL60
C8036 470p 500V
Q8002 2SK2197 SW
Q8001 2SK2197 SW
C8035 220p 1kV
C8034 220p 1kV
R8003 0.22 3W :RS
R8004 0.22 3W :RS
R8047 0.22 3W :RS
R8048 0.22 3W :RS
R8001 5.6 7W
R8049 5.6 7W
RY8001
D8002 1S2836 PROT
Q8017 2SD1622 RELAY DRIVE
D8010 RD5.6SB2
R8051 10k :CHIP
R8052 10k :CHIP
C8041 0.1 25V B:CHIP
C8040 22
R8050 10k :CHIP
R8002 120 2W :RS
R8005 2.2k
R8006 2.2k
R8010 47 :FPRD
R8008 4.7 :FPRD
D8004 D1NS4
R8011 47 :FPRD
R8009 4.7 :FPRD
D8005 D1NS4
C8004 1 450V
20V
Q8003 2SD882 GT DRIVE
Q8004 2SB772 GT DRIVE
Q8005 2SD882 GT DRIVE
Q8006 2SB772 GT DRIVE
R8007 4.7 :FPRD
R8012 4.7 :FPRD
C8005 470 25V
TO GA BOARD CN703
DC OUT
N.C
DC GND
CN8009 3P :VH-B
L8004 100µH
C8006 470 450V
C8007 470 450V
C8008 2.2 450V
C8002
R8014 0.1 1/2W :RF
R8015 0.1 1/2W :RF
R8013 4.7k
Q8007 2SK2197 SWITCHING
Q8008 2SK2197 SWITCHING
R8016 4.7k
C8010 330p 500V
C8011 330p 500V
C8012 0.012 1.25kV :PP
C8013 0.012 1.25kV :PP
C8014 0.012 1.25kV :PP
R8019 0.1 2W
R8022 0.1 2W
T8001 :PIT
D8006 D20LC40 RECT
D8007 D20LC40 RECT
C8016
C8020
C8021
C8022 2.2 200V
C8023 2.2 200V
R8025 10 2W
Q8010 2SA1162 INV
C8009 47 25V
IC8201 µC2854N HIGH POWER FACTOR PRE-REGULATOR
R8209 4.7k :RN-CP
R8210 1k :RN-CP
R8205 560k
R8201 560k
R8206 470k
R8207 220k :CHIP
R8208 8.2k :CHIP
R8202 470k
C8205 0.1 25V B:CHIP
C8206 0.1 25V B:CHIP
D8201 D1N20R
C8204 0.22 16V B:CHIP
R8211 1M :CHIP
D8204 RD7.5ESB2
C8209 100p CH:CHIP
R8212 22k :CHIP
R8213 5.1k :RN-CP
R8214 150k :CHIP
R8215 100k :CHIP
C8210 0.1 25V B:CHIP
C8208 0.001 B:CHIP
D8205 RB441Q
R8217 100k :CHIP
R8203 100k :CHIP
C8202 0.22 16V B:CHIP
C8201 0.1 25V B:CHIP
R8204 22k :CHIP
C8203 0.22 16V B:CHIP
D8202 RB441QT-77
D8203 D1NS4
C8207 330p CH:CHIP
R8216 15k :RN-CP
C8211 0.001 CH:CHIP
Q8201 2SA1162 V REF OUT
R8218 22k :CHIP
Q8202 2SA1162 SW
R8222 2.2k :CHIP
D8206 RD6.8SB2
R8219 6.8k :CHIP
R8220 100k :CHIP
Q8207 DTC143ZK
Q8203 2SC2712 SW
R8223 4.7k :CHIP
R8224 10k :CHIP
R8226 1k :CHIP
D8209 RD12SB1
D8208 1S2837
C8213
R8221 1k :CHIP
C8212 0.1 25V B:CHIP
R8225 47k :CHIP
R8231 270k :RN
R8232 270k :RN
R8233 10k :RN-CP
R8234 5.6k :RN-CP
R8227 270k :RN
R8228 270k :RN
R8229 12k :RN-CP
R8230 100 :RN-CP
C8214 0.01 B:CHIP
18V
12V
CN8007 10P :B-TO-B
GND 1
N.C
HG
HS
LG
LS
OCP
OVP
F/B
VCC 1
TO GAC BOARD CN8402
R8023 10k :CHIP
R8017 330 :CHIP
C8042 0.1 25V B:CHIP
C8037 0.1 :MPS
Q8011 IRFI-840 SW
R8018 10k :CHIP
R8021 1k :CHIP
R8053 1k :CHIP
Q8015 2SA1162 SW
R8026 1k :CHIP
Q8016 2SC2712 SW
R8020 4.7k :CHIP
C8038 47 25V
R8044 0.22 2W
R8045 10k :CHIP
R8046 10k :CHIP
PH8001 PS2501-1-L SW
R8028 680 :CHIP
R8024 10k :CHIP
PH8002 PS2501-1-L SW
Q8014 2SB799 SW
R8029 4.7k :CHIP
Q8012 2SC2712 SW
C8019
C8015 100 25V
PH8003 PS2501-1-L SW
C8039 0.1 25V B:CHIP
R8054 10k :CHIP
PH8004 PS2501-1-L SW
R8031 10k :CHIP
R8030 1k :CHIP
GAC (SWITCHING DRIVE)
CN8402 10P :B-TO-B
TO GA BOARD CN8007
FB8401 1.1µH
T8402
D8405 1SS119 SWITCHING
R8413 1k :CHIP
Q8403 2SB799 SWITCHING
R8409 2.2k :CHIP
C8407 0.001 B:CHIP
C8415
R8422 4.7 1/4W :FPRD
D8406 1SS119 SWITCHING
R8414 1k :CHIP
Q8404 2SB799 SWITCHING
R8410 2.2k :CHIP
C8408 0.001 B:CHIP
C8416
R8421 4.7 1/4W :FPRD
C8401 0.1 25V B:CHIP
R8401 22 :CHIP
R8423 330 :CHIP
R8424 4.7k :CHIP
EMI
FL8401 0.022
R8403 56k :CHIP
C8409 47 25V
R8411 2.2k :CHIP
IC8401 CXA8038P SWITCHING DRIVE
RCS
CCS
CS
SVIN
ON/OFF
OVP
OUT1
VE
GND
S/T
RT1
CT
RT2
VREF
OUT2
VC
D8403 1SS119
R8412 2.2k :CHIP
D8404 RD18SB2 18V REG
Q8402 2SD774 18V REG
R8407 1.5k :RN-CP
R8416 4.7k :RN-CP
R8415 4.7k :CHIP
R8417 22k :CHIP
TH8401
R8418 18k :CHIP
R8419 2.2k :CHIP
C8418 0.22 25V F:CHIP
C8410 0.1 25V B:CHIP
C8411 330p CH:CHIP
C8412 0.1 25V B:CHIP
RV8401
C8417 0.1 25V B:CHIP
R8404 4.7k :CHIP
R8406
D8401 RB441Q
D8402 RB441Q
R8402 2.2k :CHIP
C8402 0.1 25V B:CHIP
R8405 220 :CHIP
C8403 0.0047 B:CHIP
C8404 0.0047 B:CHIP
B-SS1628<U/C>-GAC
– GA BOARD
CN8001
A
B
C



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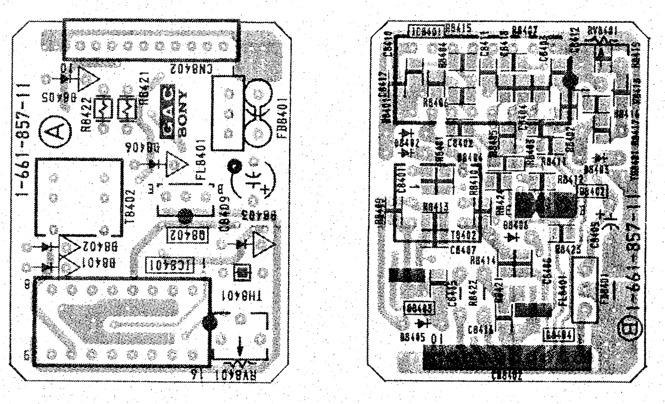
CN8002 3P
IGN ST
IGN +
IGN GND
TO GC BOARD CN8501
CN8003 2P WHT :S-MICRO
12V
GND
DC FAN
CN8008 5P RED :S-MICRO
VCC 1
GND 1
VCC 2
GND 2
AF ON/OFF
TO GB BOARD CN7004
LAMP CONT
LAMP PORT
TEMP
GND 3
TO BM BOARD CN211
CN8004 4P YEL :S-MICRO
CN8005 8P :B-TO-B
VCC 2
12V IN
CNTL
N.C
OVP
PROT IN
PROT RET
GND 2
TO GAB BOARD CN8301
CN8006 5P :B-TO-B
VS
N.C
N.C
CS
IGN
TO GAB BOARD CN8302
CN8010 2P BLK :S-MICRO
THERMAL SW2
THERMAL SW1
B-551628<U/C>-GA.
Q8011 IRF1-840 SW
Q8012 2SC2712 SW
Q8013 2SA1162 SW
PH8005 PC123FY2 SW
PH8006 PC123FY2 SW
PH8007 PC123FY2 SW
D8008 RD120E
D8009 D20LC40 SW
D8011 RD12SB1
12V
20V
IC8301 μPC3246 COMPARATOR
IC8305 NJM2904M COMPARATOR
IC8303 TL431BCB REG
Q8301 2SA1162 SW
Q8302 2SC2712 SW
Q8313 2SC2712 SW
Q8314 2SA1162 SW
Q8303 2SA1162 SW
Q8304 2SC2712 SW
Q8306 2SA1162 PROT
D8301 1S2836
D8302 1S2836
D8303 1S2836
D8307 1S2837
D8320 1S2836
D8323 1S2836
D8324 1S2837
CNTL
VS
CS
IGN

GAB [LAMP POWER CONTROL]

GAC [SWITCHING DRIVE]

– GAC BOARD – <A Side> <B Side>

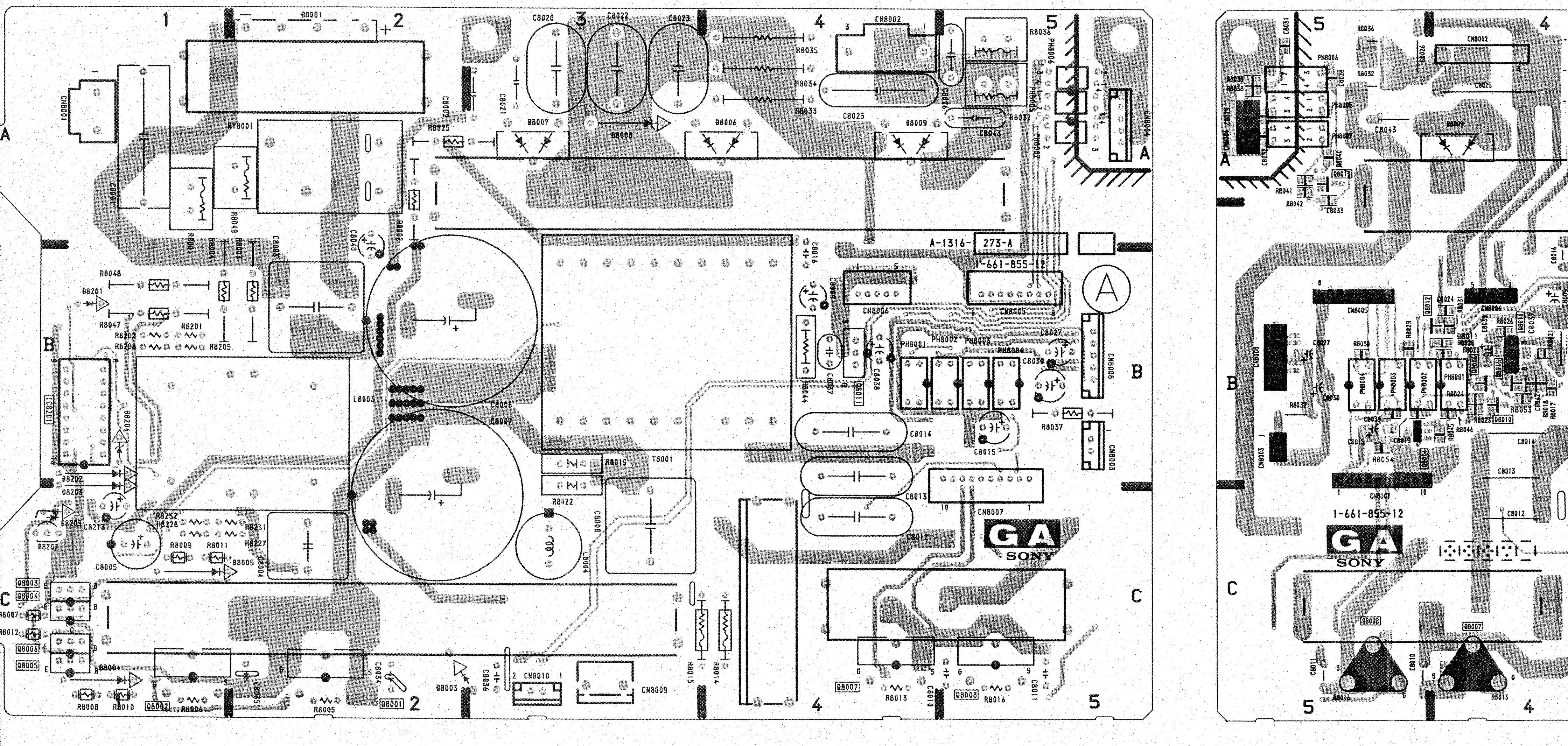


1-661-857-11
GAC
SONY
CN8402
FB8401
FL8401
TH8401
IC8401
Q8401
Q8402
T8402

GA [LAMP POWER SUPPLY]

– GA BOARD – <A Side>

<B Side>



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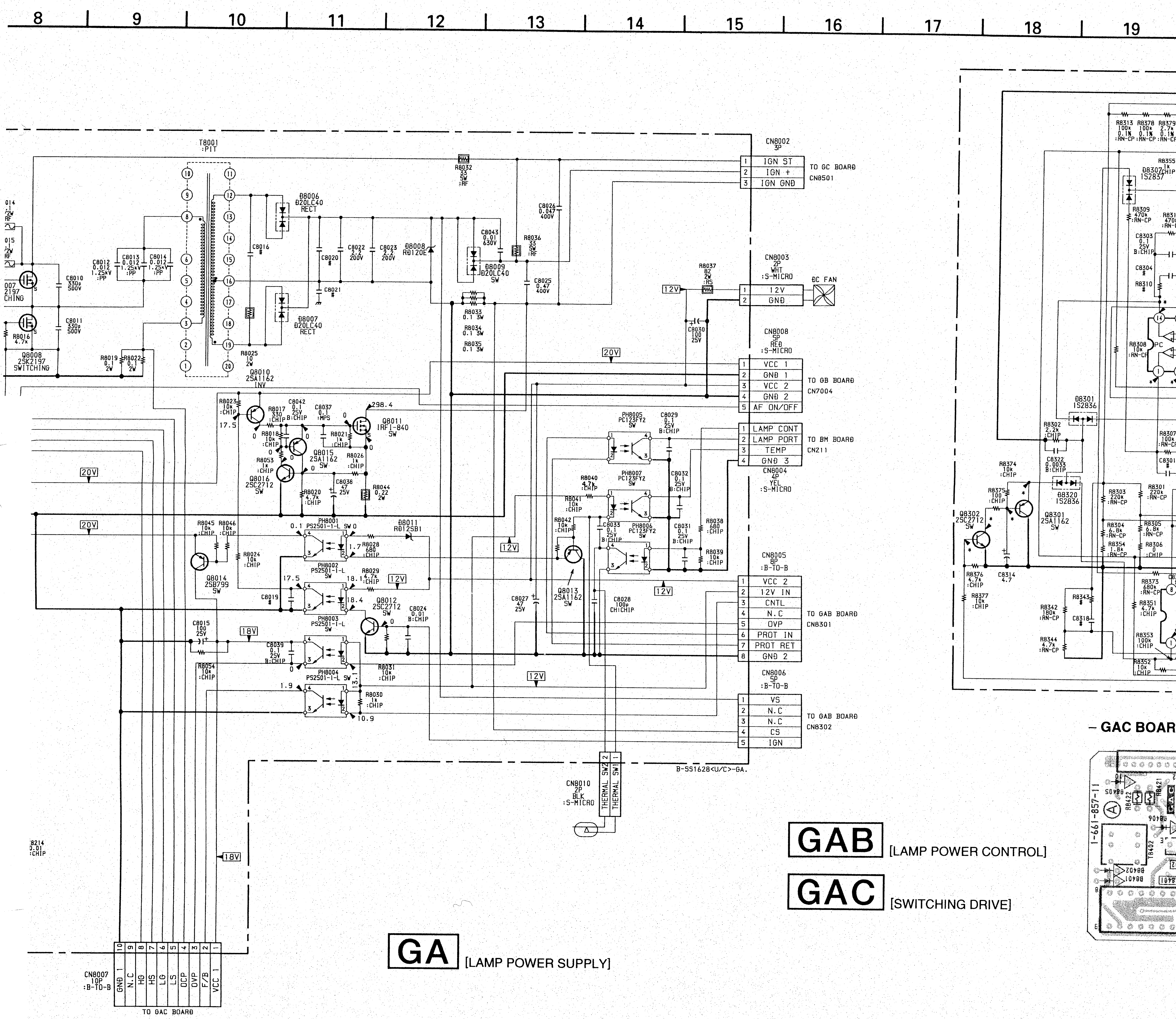
A-1316-273-A
1-661-855-12
GA
SONY
CN8001
CN8002
CN8003
CN8005
CN8006
CN8007
CN8008
CN8009
CN8010
L8003
T8001
RY8001



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19
T8001 :PIT
CN8002 3P
IGN ST
IGN +
IGN GND
TO GC BOARD CN8501
D8006 D2OLC40 RECT
D8007 D2OLC40 RECT
D8008 RD120E
D8009 D2OLC40 5W
Q8008 2SK2197 SWITCHING
Q8010 2SA1162 INV
Q8011 IRF1-840 5W
Q8014 2SB799 5W
Q8015 2SA1162 5W
Q8016 2SC2712 5W
Q8012 2SC2712 5W
Q8013 2SA1162 5W
PH8001 PS2501-1-L SW
PH8002 PS2501-1-L SW
PH8003 PS2501-1-L SW
PH8004 PS2501-1-L SW
PH8005 PC123FY2 SW
PH8006 PC123FY2 SW
PH8007 PC123FY2 SW
D8011 RD12SB1
CN8003 2P WHT :S-MICRO
12V
GND
DC FAN
CN8008 5P RED :S-MICRO
VCC 1
GND 1
VCC 2
GND 2
AF ON/OFF
TO GB BOARD CN7004
LAMP CONT
LAMP PORT
TEMP
GND 3
TO BM BOARD CN211
CN8004 4P YEL :S-MICRO
CN8005 8P :B-TO-B
VCC 2
12V IN
CNTL
N.C
OVP
PROT IN
PROT RET
GND 2
TO GAB BOARD CN8301
CN8006 5P :B-TO-B
VS
N.C
N.C
CS
IGN
TO GAB BOARD CN8302
CN8010 2P BLK :S-MICRO
THERMAL SW2
THERMAL SW1
B-SS1628<U/C>-GA.
CN8007 10P :B-TO-B
GND 1
N.C
HG
HS
LG
LS
OCP
OVP
F/B
VCC 1
TO GAC BOARD CN8402
20V
18V
12V
298.4
Q8302 2SC2712 SW
Q8301 2SA1162 SW
D8301 1S2836
D8320 1S2836
D8307 1S2837
1-661-857-11

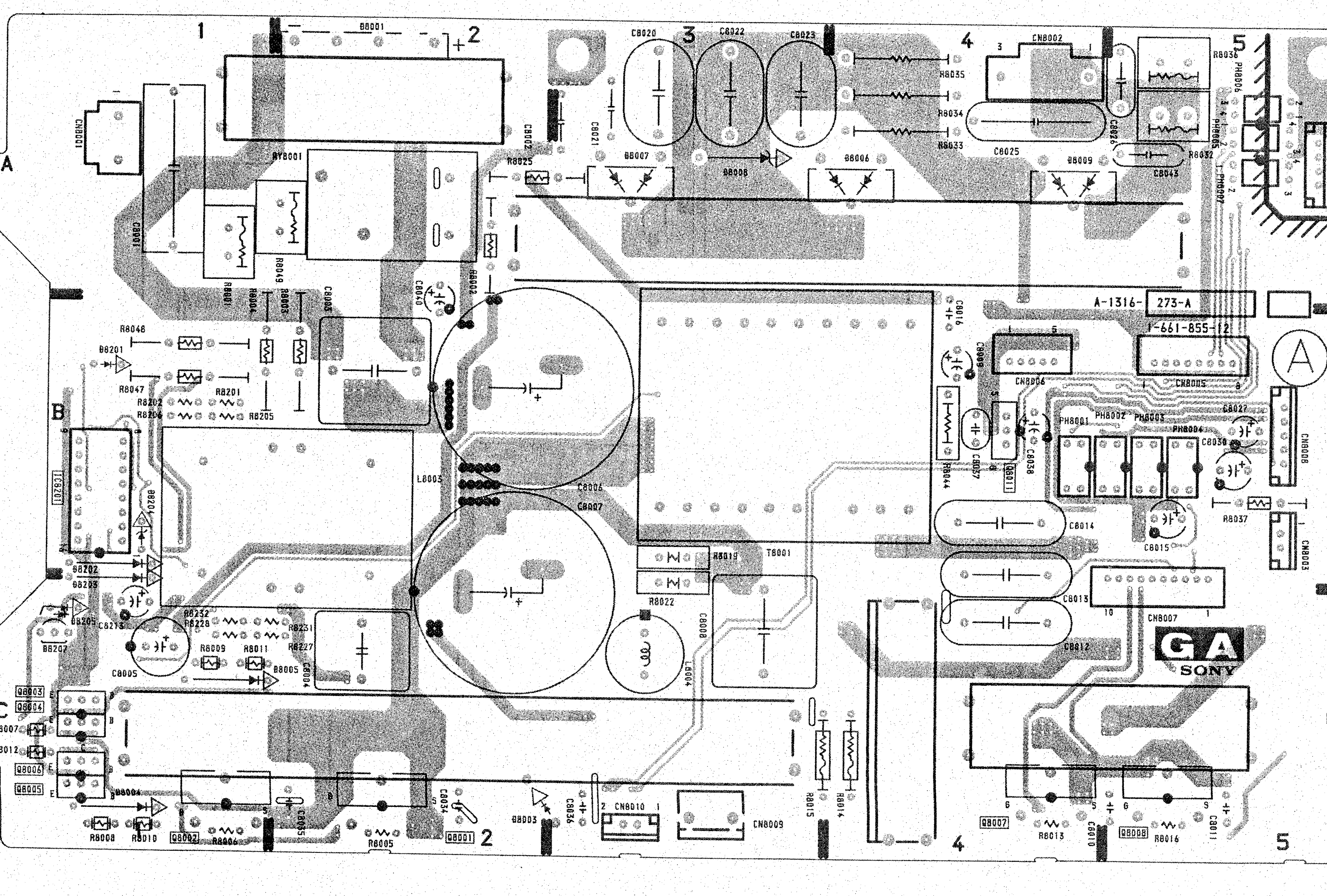
GAB [LAMP POWER CONTROL]

GAC [SWITCHING DRIVE]

GA [LAMP POWER SUPPLY]

– GAC BOAR

– GA BOARD – <A Side>



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A
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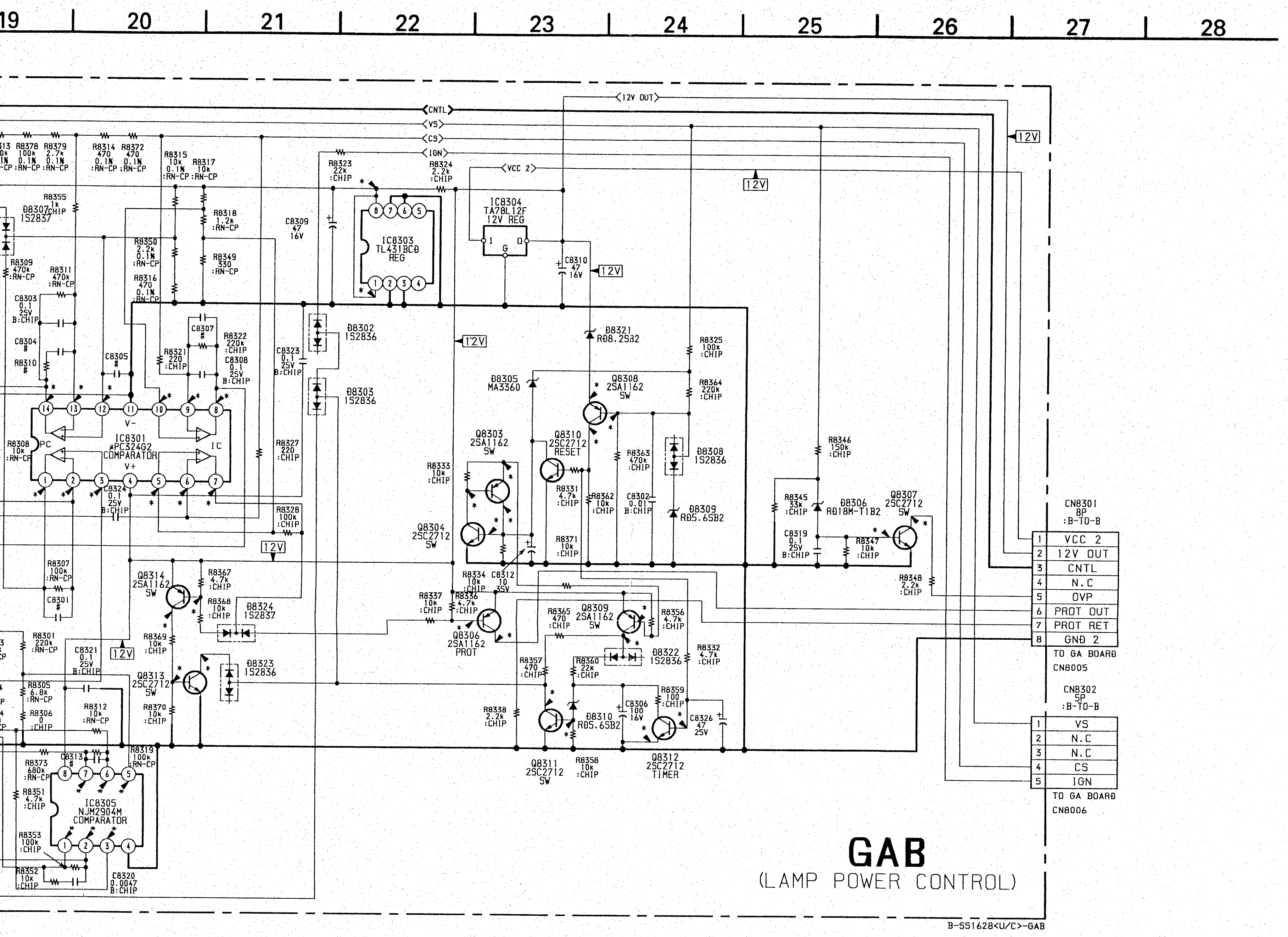
C
A-1316-273-A
1-661-855-12
GA
SONY
CN8001
CN8002
CN8007
CN8009
CN8010
T8001
L8003
L8004
RY8001


19
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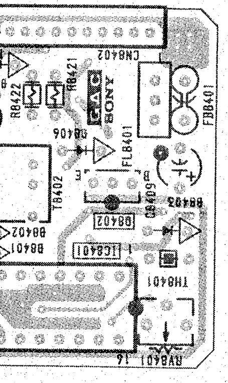
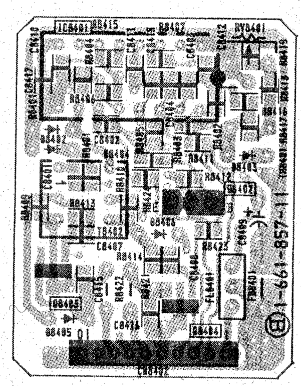
28
IC8301 μPC324G2 COMPARATOR
IC8303 TL431BC8 REG
IC8304 TA78L12F 12V REG
IC8305 NJM2904M COMPARATOR
Q8303 2SA1162 SW
Q8304 2SC2712 SW
Q8305 MA3360
Q8306 2SA1162 PROT
Q8307 2SC2712 SW
Q8308 2SA1162 SW
Q8309 2SA1162 SW
Q8310 2SC2712 RESET
Q8311 2SC2712 SW
Q8312 2SC2712 TIMER
Q8313 2SC2712 SW
Q8314 2SA1162 SW
<CNTL>
<VS>
<CS>
<IGN>
<12V OUT>
<VCC 2>
12V
CN8301 8P :B-TO-B
1 VCC 2
2 12V OUT
3 CNTL
4 N.C
5 OVP
6 PROT OUT
7 PROT RET
8 GND 2
TO GA BOARD CN8005
CN8302 5P :B-TO-B
1 VS
2 N.C
3 N.C
4 CS
5 IGN
TO GA BOARD CN8006
B-SS1628<U/C>-GAB

GAB
(LAMP POWER CONTROL)

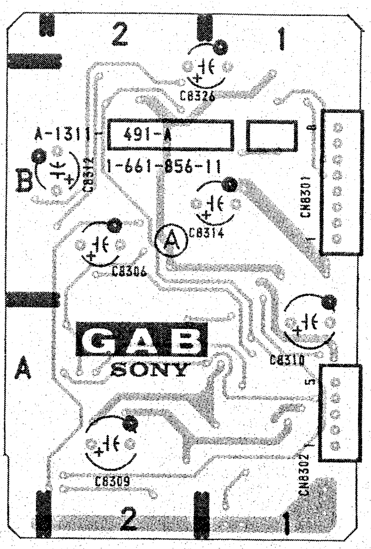
C BOARD – <A Side>



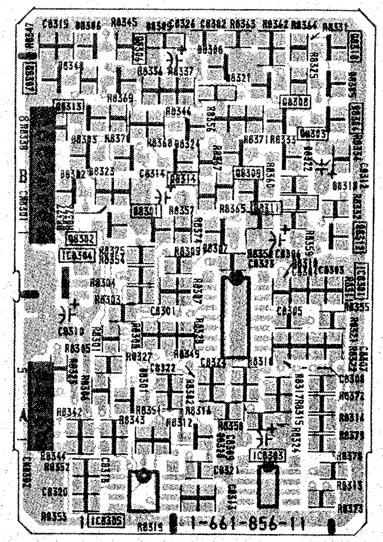
<B Side>



– **GAB BOARD** – <A Side>


A-1311
491-A
1-661-856-11
GAB
SONY
CN8301
CN8302

<B Side>



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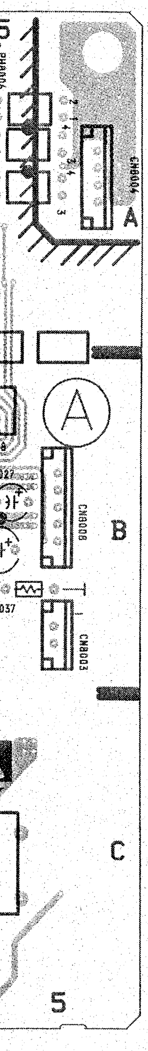
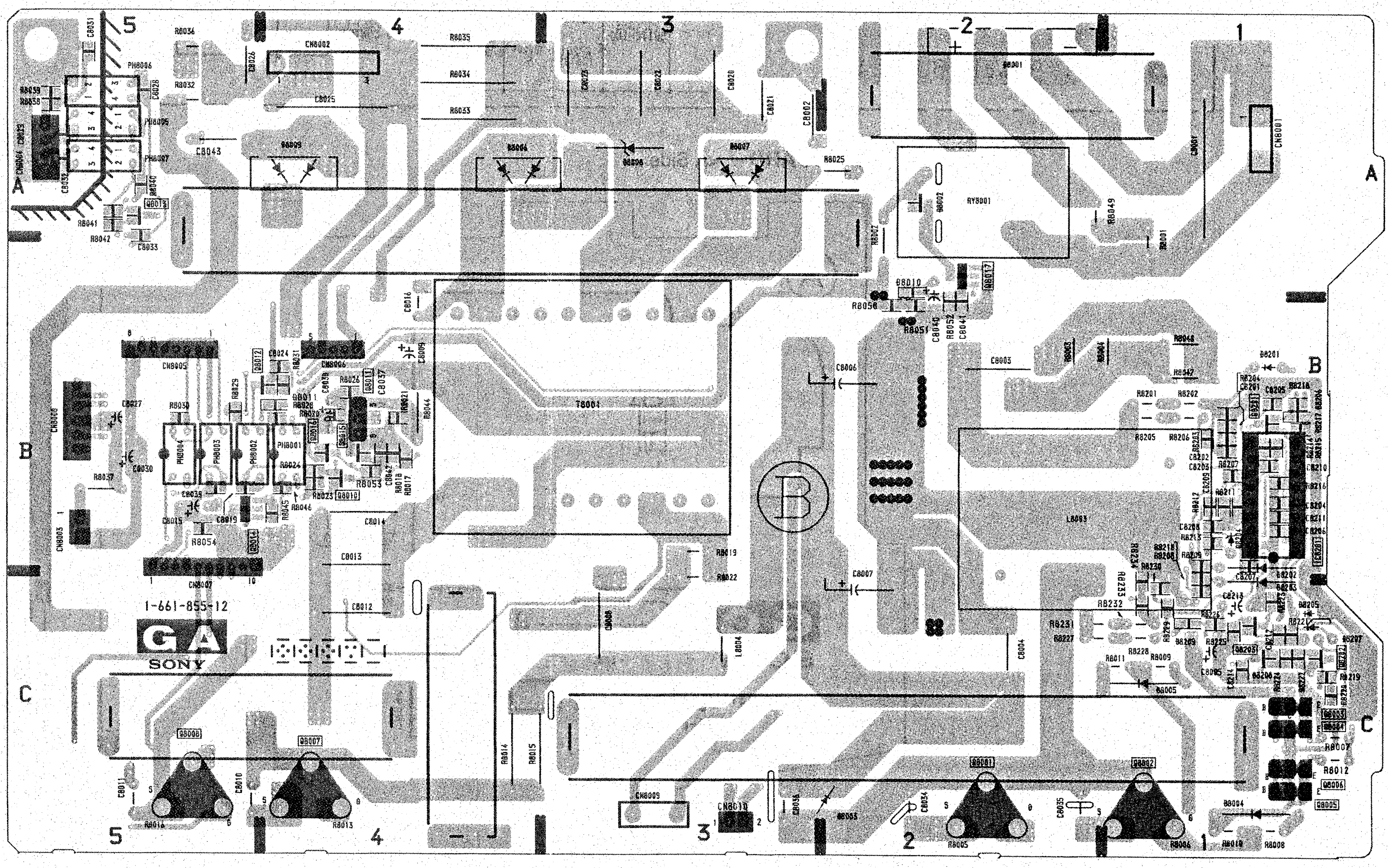
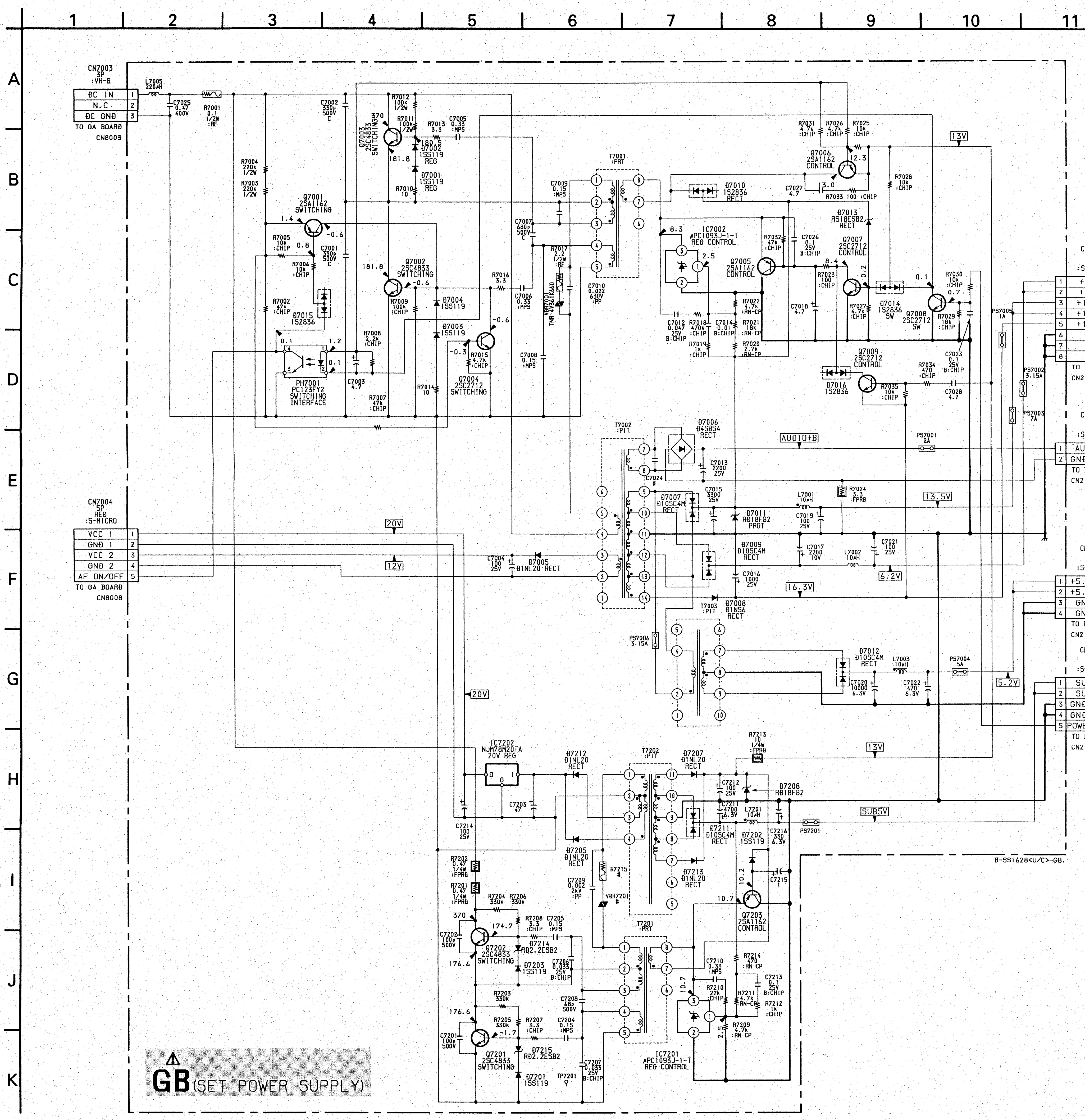
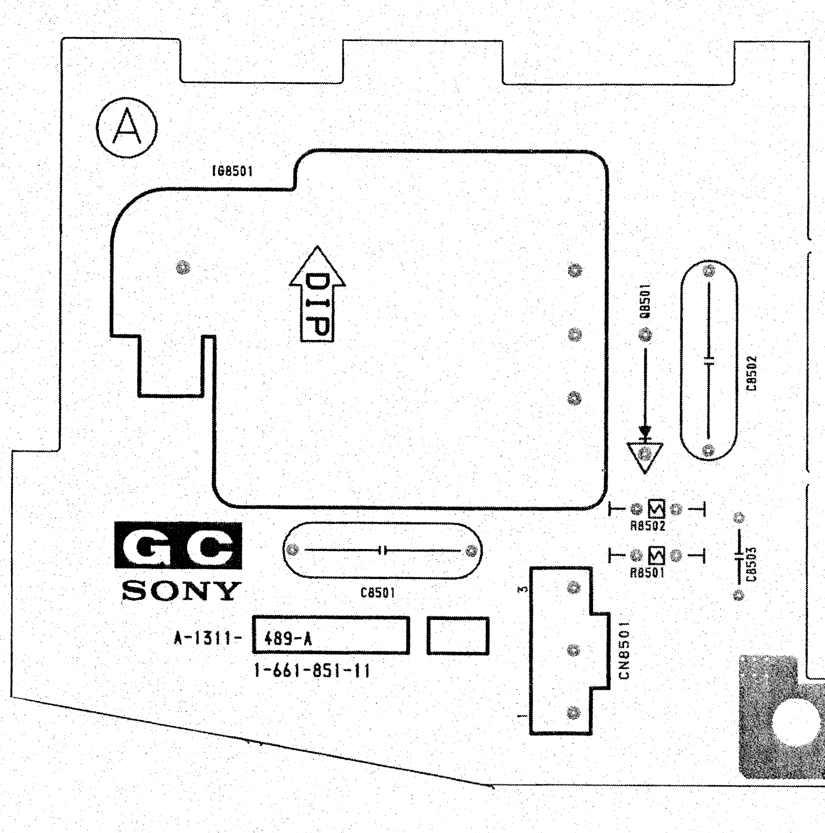


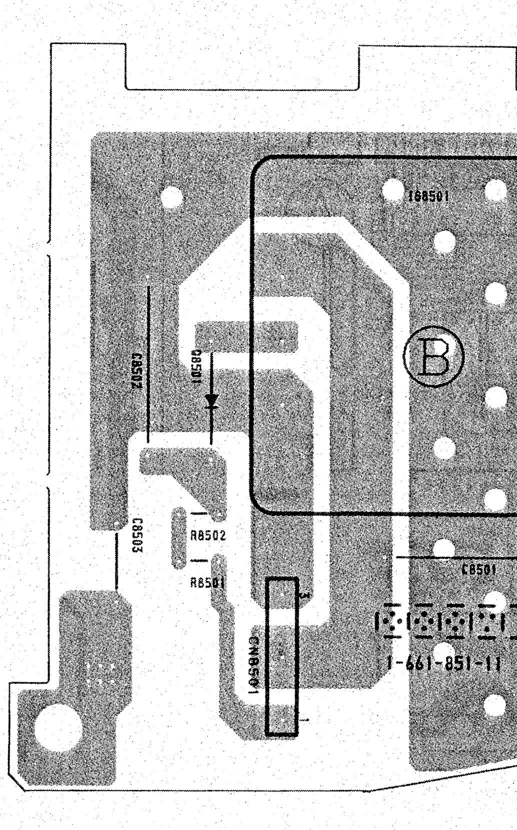

1-661-855-12
GA
SONY
T8001
RY8001

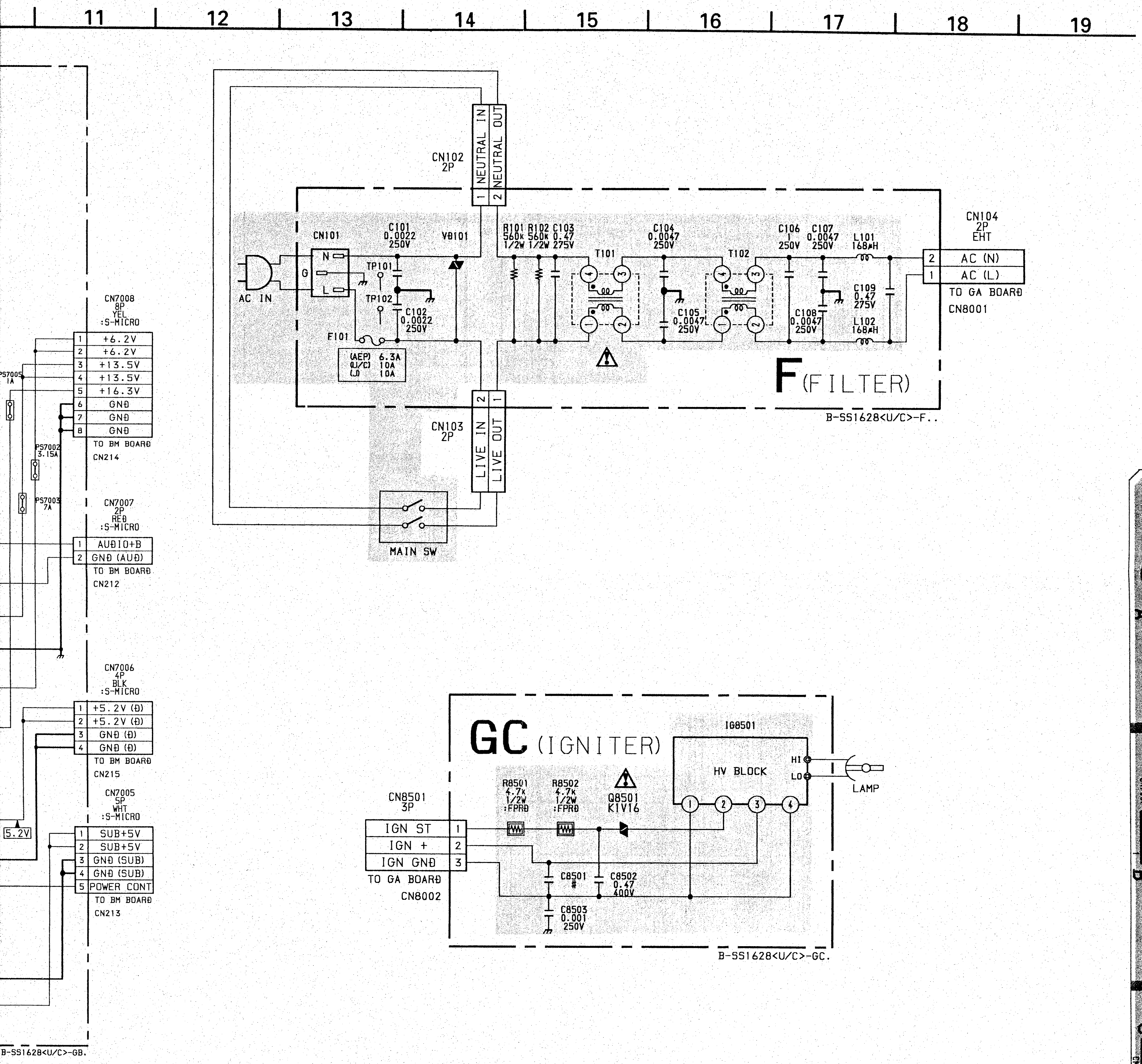

GB (SET POWER SUPPLY)
CN7003 3P :VH-B
DC IN
N.C
DC GND
TO GA BOARD CN8009
CN7004 5P RED :S-MICRO
VCC 1
GND 1
VCC 2
GND 2
AF ON/OFF
TO GA BOARD CN8008
Q7001 2SA1162 SWITCHING
Q7002 2SC4833 SWITCHING
Q7003 2SC4833 SWITCHING
Q7004 2SC2712 SWITCHING
Q7005 2SA1162 CONTROL
Q7006 2SA1162 CONTROL
Q7007 2SC2712 CONTROL
Q7008 2SC2712 SW
Q7009 2SC2712 CONTROL
PH7001 PC123FY2 SWITCHING INTERFACE
IC7002 PC1093J-1-T REG CONTROL
T7001 :PRT
T7002 :PIT
T7003 :PIT
D7006 D4SB54 RECT
IC7202 NJM78M20FA 20V REG
T7202 :PIT
T7201 :PRT
Q7201 2SC4833 SWITCHING
Q7202 2SC4833 SWITCHING
Q7203 2SA1162 CONTROL
IC7201 PC1093J-1-T REG CONTROL
20V
12V
13V
13.5V
16.3V
6.2V
5.2V
AUDIO+B
SUB5V
B-SS1628<U/C>-GB.

- GC BOARD - <A Side>

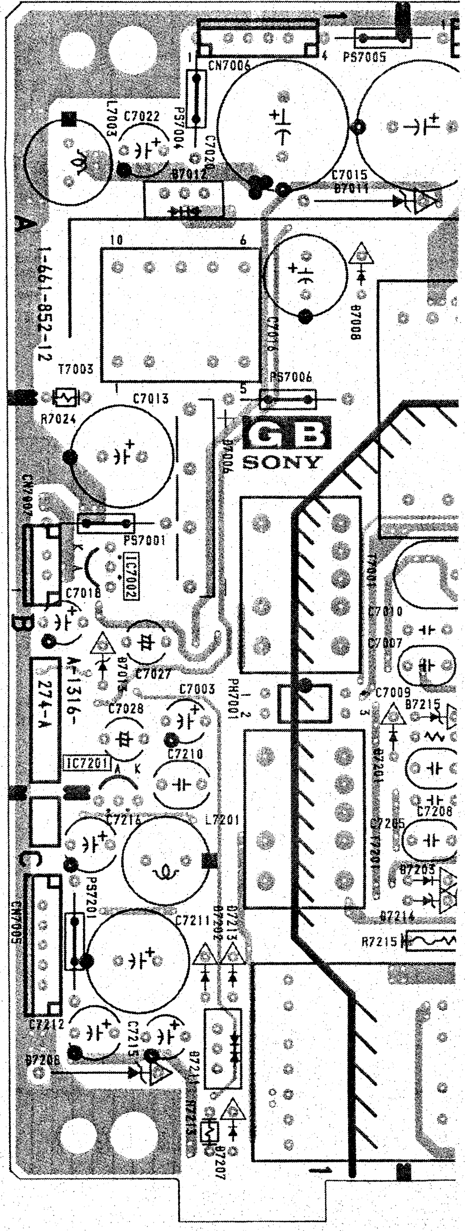

A
IG8501
DIP
D8501
C8502
R8502
R8501
C8503
GC
SONY
C8501
A-1311-489-A
1-661-851-11
CN8501
1
3

<B Side>

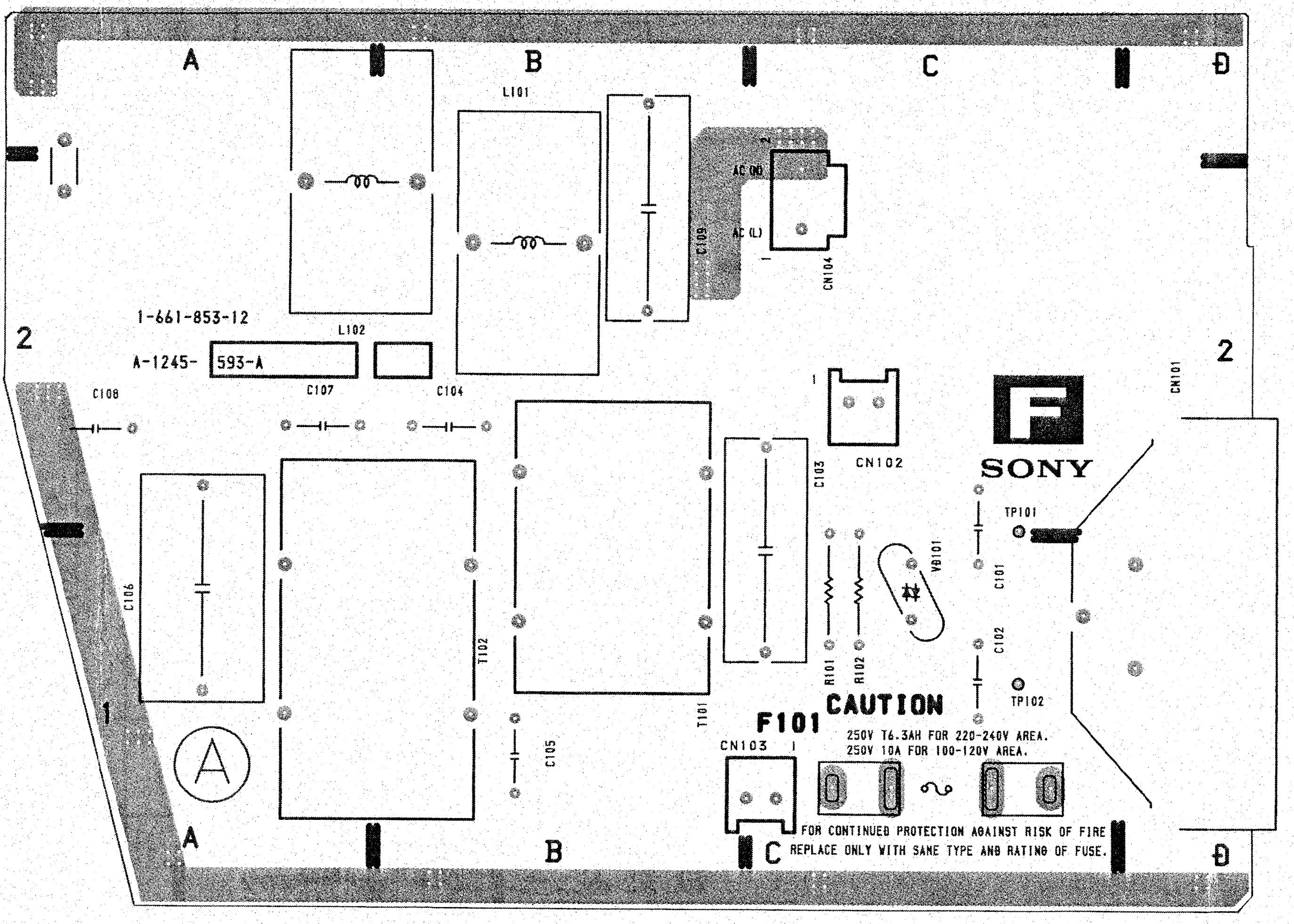

IG8501
B
C8502
D8501
C8503
R8502
R8501
C8501
CN8501
1-661-851-11

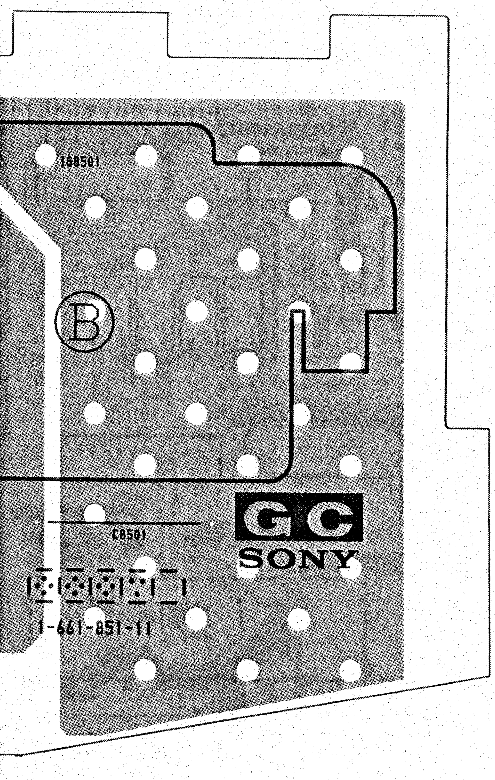

11
12
13
14
15
16
17
18
19
CN102 2P
1 NEUTRAL IN
2 NEUTRAL OUT
CN101
AC IN
N
G
L
TP101
TP102
C101 0.0022 250V
C102 0.0022 250V
VB101
F101
(AEP) 6.3A
(U/C) 10A
LO 10A
R101 560k 1/2W
R102 560k 1/2W
C103 0.47 275V
T101
C104 0.0047 250V
C105 0.0047 250V
T102
C106 1 250V
C107 0.0047 250V
C108 0.0047 250V
C109 0.47 275V
L101 168μH
L102 168μH
CN104 2P EHT
2 AC (N)
1 AC (L)
TO GA BOARD
CN8001
F (FILTER)
B-SS1628<U/C>-F..
CN103 2P
2 LIVE IN
1 LIVE OUT
MAIN SW
CN7008 8P YEL :S-MICRO
1 +6.2V
2 +6.2V
3 +13.5V
4 +13.5V
5 +16.3V
6 GND
7 GND
8 GND
TO BM BOARD
CN214
PS7005 1A
PS7002 3.15A
PS7003 7A
CN7007 2P RED :S-MICRO
1 AUDIO+B
2 GND (AUD)
TO BM BOARD
CN212
CN7006 4P BLK :S-MICRO
1 +5.2V (D)
2 +5.2V (D)
3 GND (D)
4 GND (D)
TO BM BOARD
CN215
CN7005 5P WHT :S-MICRO
5.2V
1 SUB+5V
2 SUB+5V
3 GND (SUB)
4 GND (SUB)
5 POWER CONT
TO BM BOARD
CN213
B-SS1628<U/C>-GB.
GC (IGNITER)
CN8501 3P
1 IGN ST
2 IGN +
3 IGN GND
TO GA BOARD
CN8002
R8501 4.7k 1/2W :FPRD
R8502 4.7k 1/2W :FPRD
Q8501 K1V16
C8501
C8502 0.47 400V
C8503 0.001 250V
IG8501
HV BLOCK
HI
LO
LAMP
B-SS1628<U/C>-GC.

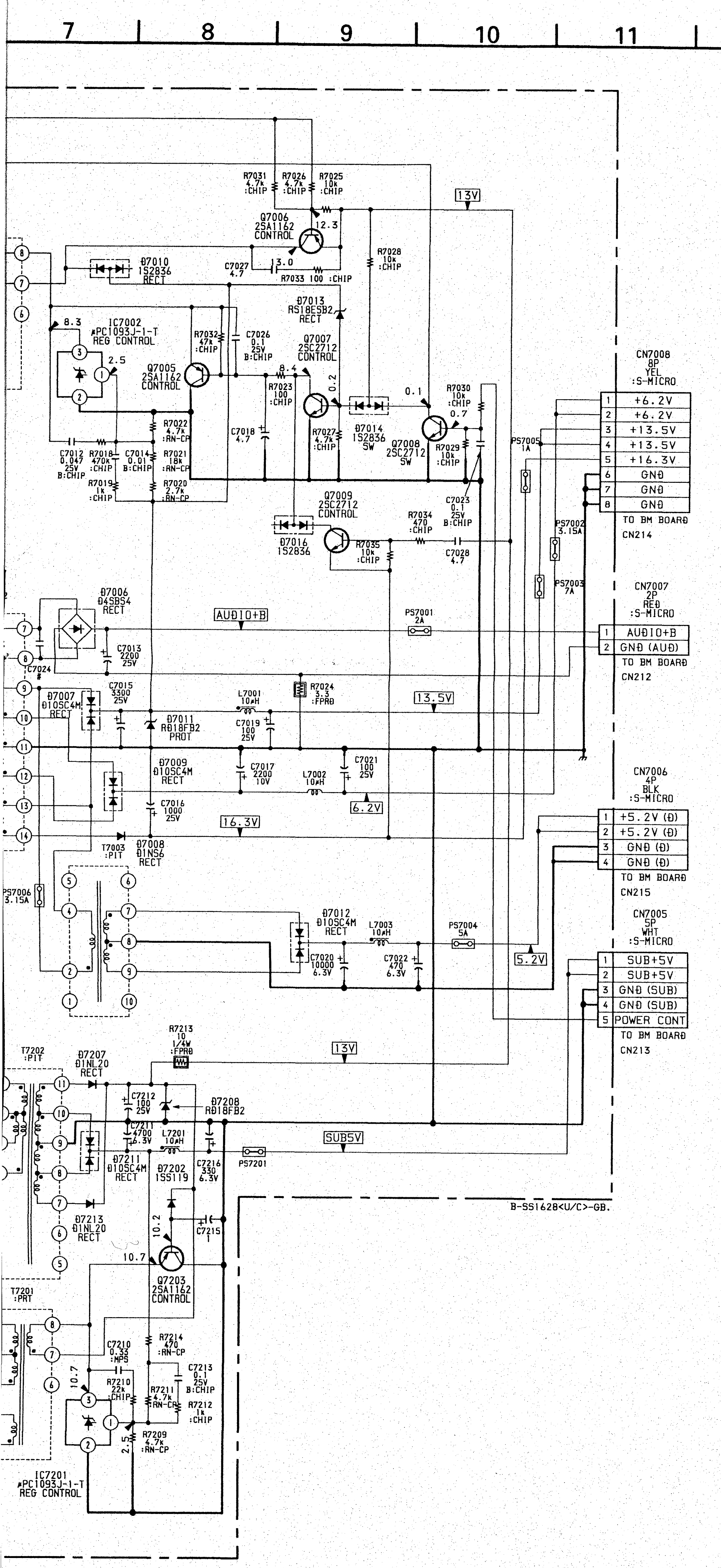
– GB BOARD – <A Side>

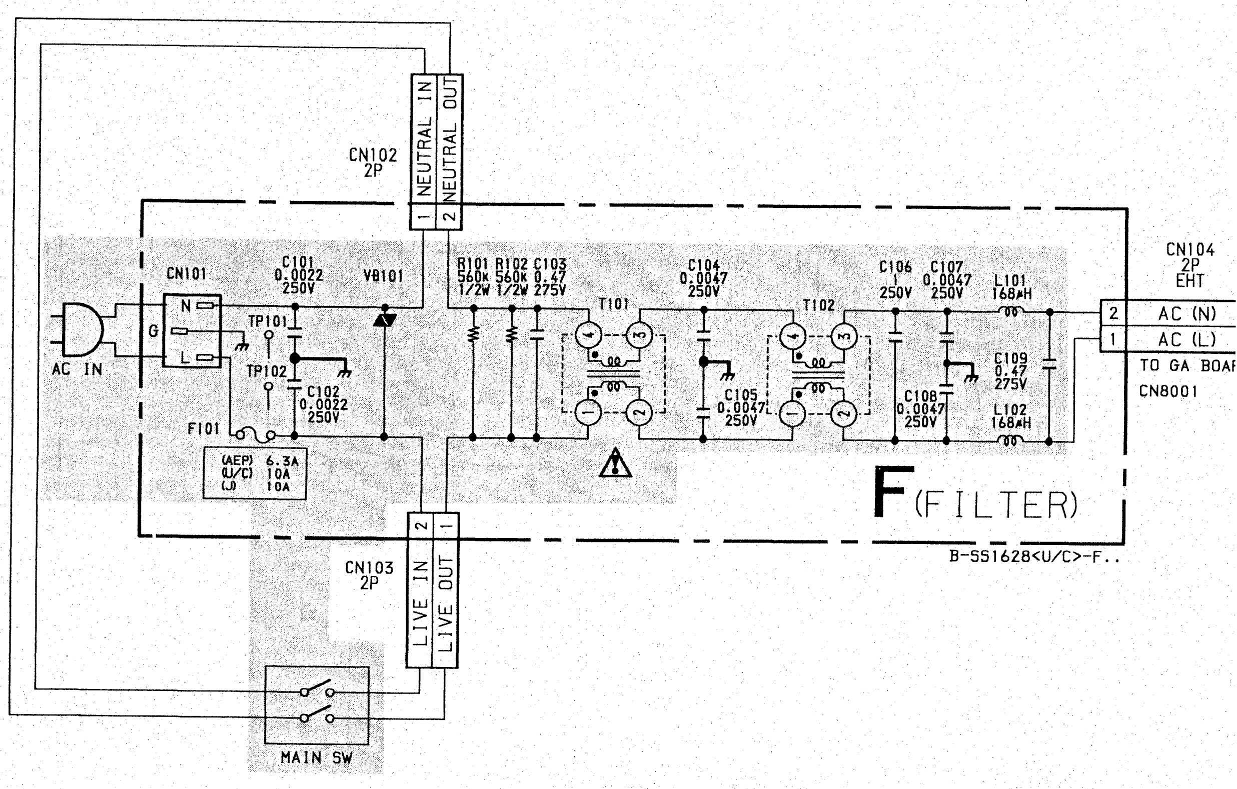

CN7006
PS7005
L7003
C7022
PS7004
C7020
C7015
D7011
D7012
A
1-661-852-12
10
6
T7003
C7014
D7008
PS7006
C7013
R7024
GB
SONY
CN7002
PS7001
IC7002
C7018
B
274-A
A-1316-
C7027
C7028
C7003
PH7001
IC7201
C7210
C7216
L7201
C
CN7005
PS7201
C7211
C7212
R7206
C7215
D7213
D7207
C7009
C7010
C7007
D7215
C7208
C7205
D7203
D7214
R7215

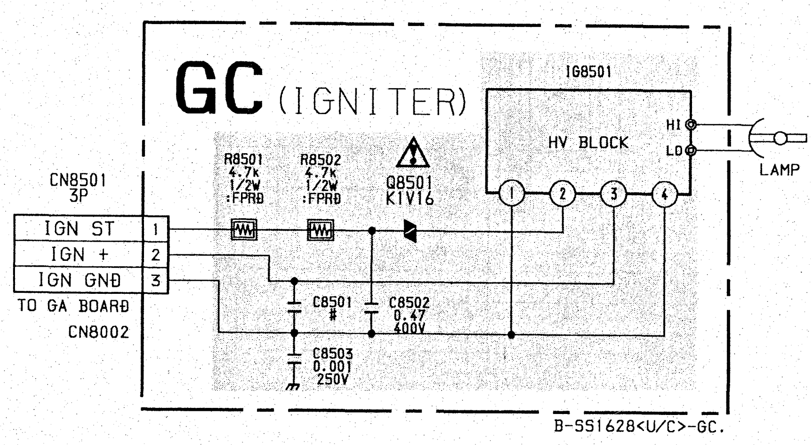
– F BOARD – <A Side>


A
B
C
D
L101
AC (N)
AC (L)
C109
CN104
2
1-661-853-12
A-1245-
593-A
L102
C108
C107
C104
CN102
F
SONY
CN101
TP101
C106
T102
C103
VB101
C101
R101
R102
C102
1
T101
C105
TP102
A
CN103
F101
CAUTION
250V T6.3AH FOR 220-240V AREA.
250V 10A FOR 100-120V AREA.
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

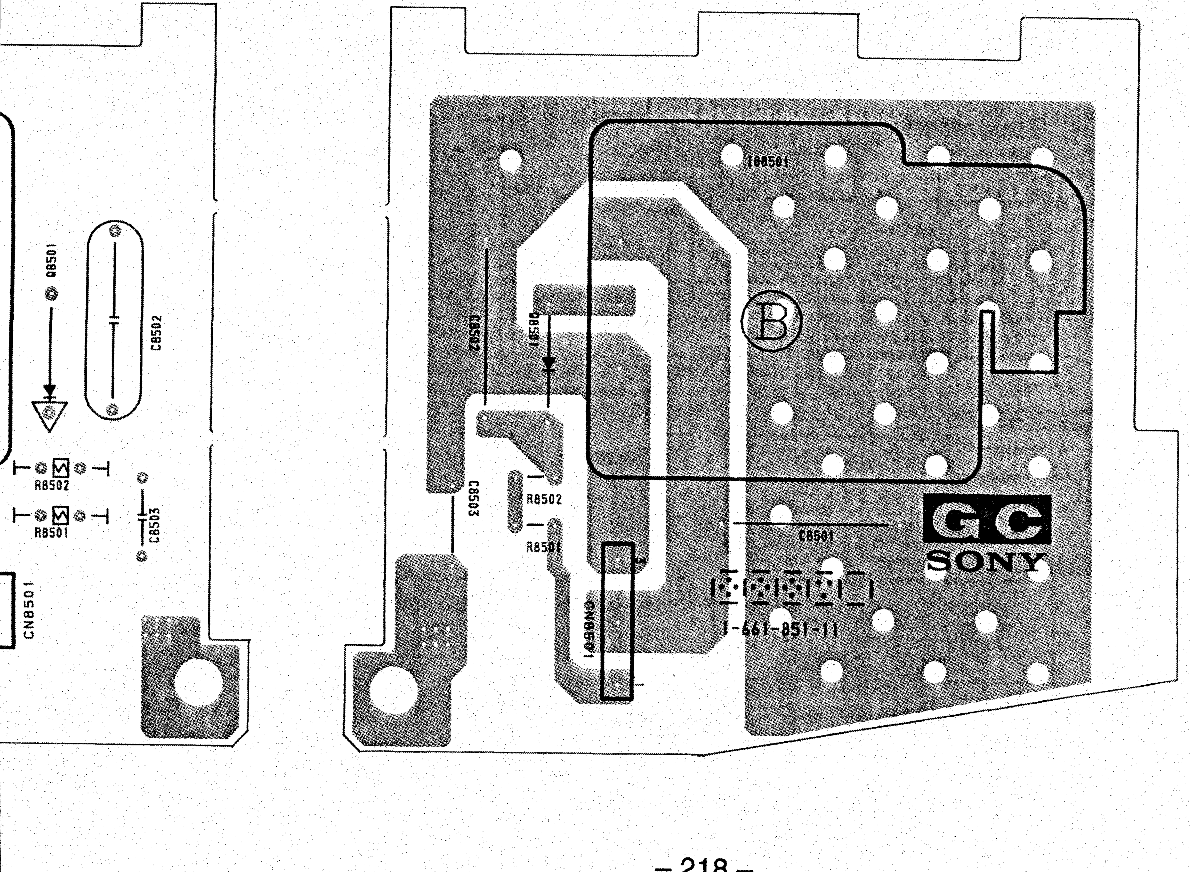

IG8501
B
C8501
GC
SONY
1-661-851-11


7
8
9
10
11
12
13
14
15
16
17
18
IC7002 μPC1093J-1-T REG CONTROL
Q7005 2SA1162 CONTROL
Q7006 2SA1162 CONTROL
Q7007 2SC2712 CONTROL
Q7008 2SC2712 5W
Q7009 2SC2712 CONTROL
D7010 1S2836 RECT
D7013 RS1BESB2 RECT
D7014 1S2836 5W
D7016 1S2836
D7006 D4SB54 RECT
D7007 D10SC4M RECT
D7008 D1NS6 RECT
D7009 D10SC4M RECT
D7011 RD18FB2 PROT
D7012 D10SC4M RECT
T7003 :PIT
13V
AUDIO+B
13.5V
6.2V
16.3V
5.2V
SUB5V
PS7001 2A
PS7002 3.15A
PS7003 7A
PS7004 5A
PS7005 1A
PS7006 3.15A
PS7201
CN7008 8P YEL :S-MICRO
1 +6.2V
2 +6.2V
3 +13.5V
4 +13.5V
5 +16.3V
6 GND
7 GND
8 GND
TO BM BOARD CN214
CN7007 2P RED :S-MICRO
1 AUDIO+B
2 GND (AUD)
TO BM BOARD CN212
CN7006 4P BLK :S-MICRO
1 +5.2V (D)
2 +5.2V (D)
3 GND (D)
4 GND (D)
TO BM BOARD CN215
CN7005 5P WHT :S-MICRO
1 SUB+5V
2 SUB+5V
3 GND (SUB)
4 GND (SUB)
5 POWER CONT
TO BM BOARD CN213
T7202 :PIT
D7207 D1NL20 RECT
D7208 RD18FB2
D7211 D10SC4M RECT
D7202 1SS119
D7213 D1NL20 RECT
Q7203 2SA1162 CONTROL
T7201 :PRT
IC7201 μPC1093J-1-T REG CONTROL
R7213 10 1/4W :FPRD
B-SS1628<U/C>-GB.

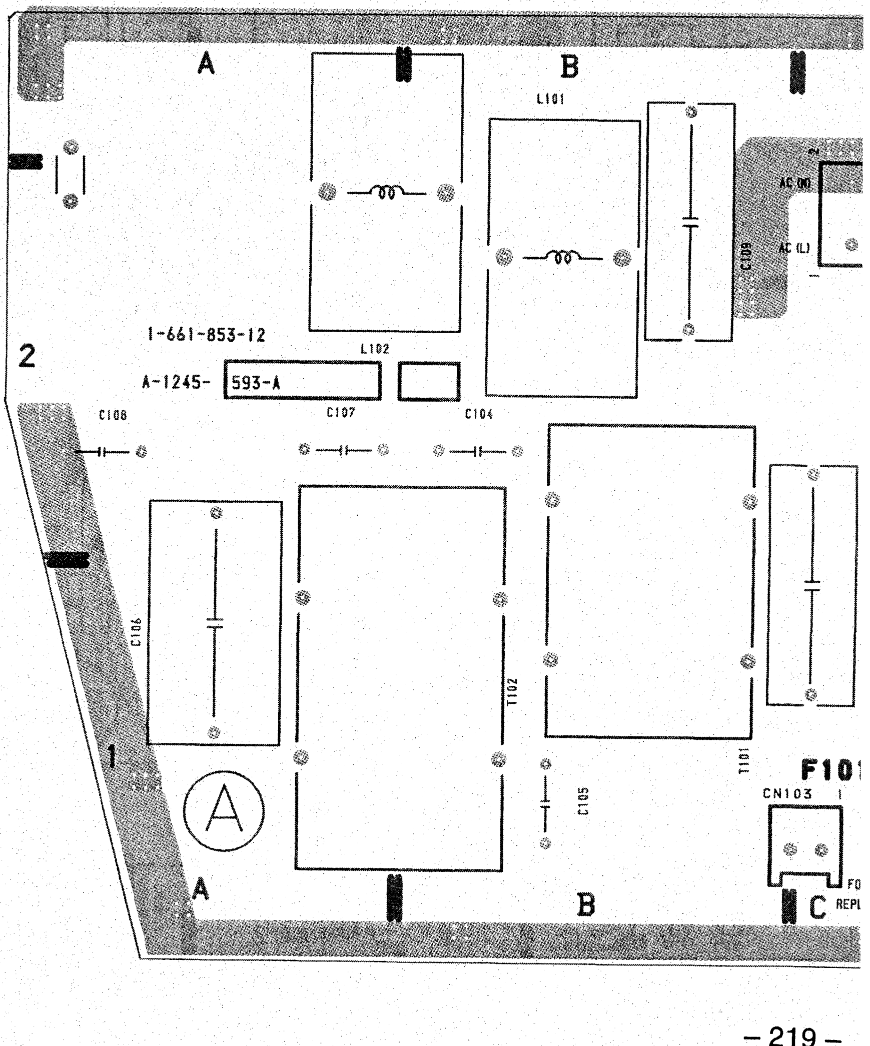

CN102 2P
1 NEUTRAL IN
2 NEUTRAL OUT
CN101
AC IN
F101
(AEP) 6.3A
(U/C) 10A
(J) 10A
TP101
TP102
C101 0.0022 250V
C102 0.0022 250V
VB101
R101 560k 1/2W
R102 560k 1/2W
C103 0.47 275V
T101
C104 0.0047 250V
C105 0.0047 250V
T102
C106 1 250V
C107 0.0047 250V
C108 0.0047 250V
C109 0.47 275V
L101 168μH
L102 168μH
CN104 2P EHT
2 AC (N)
1 AC (L)
TO GA BOARD CN8001
CN103 2P
2 LIVE IN
1 LIVE OUT
MAIN SW
F (FILTER)
B-SS1628<U/C>-F..


GC (IGNITER)
CN8501 3P
1 IGN ST
2 IGN +
3 IGN GND
TO GA BOARD CN8002
R8501 4.7k 1/2W :FPRD
R8502 4.7k 1/2W :FPRD
Q8501 K1V16
C8501
C8502 0.47 400V
C8503 0.001 250V
IG8501
HV BLOCK
HI
LO
LAMP
B-SS1628<U/C>-GC.

<B Side>


Q8501
C8502
C8503
R8502
R8501
CN8501
IG8501
C8501
B
GC
SONY
1-661-851-11

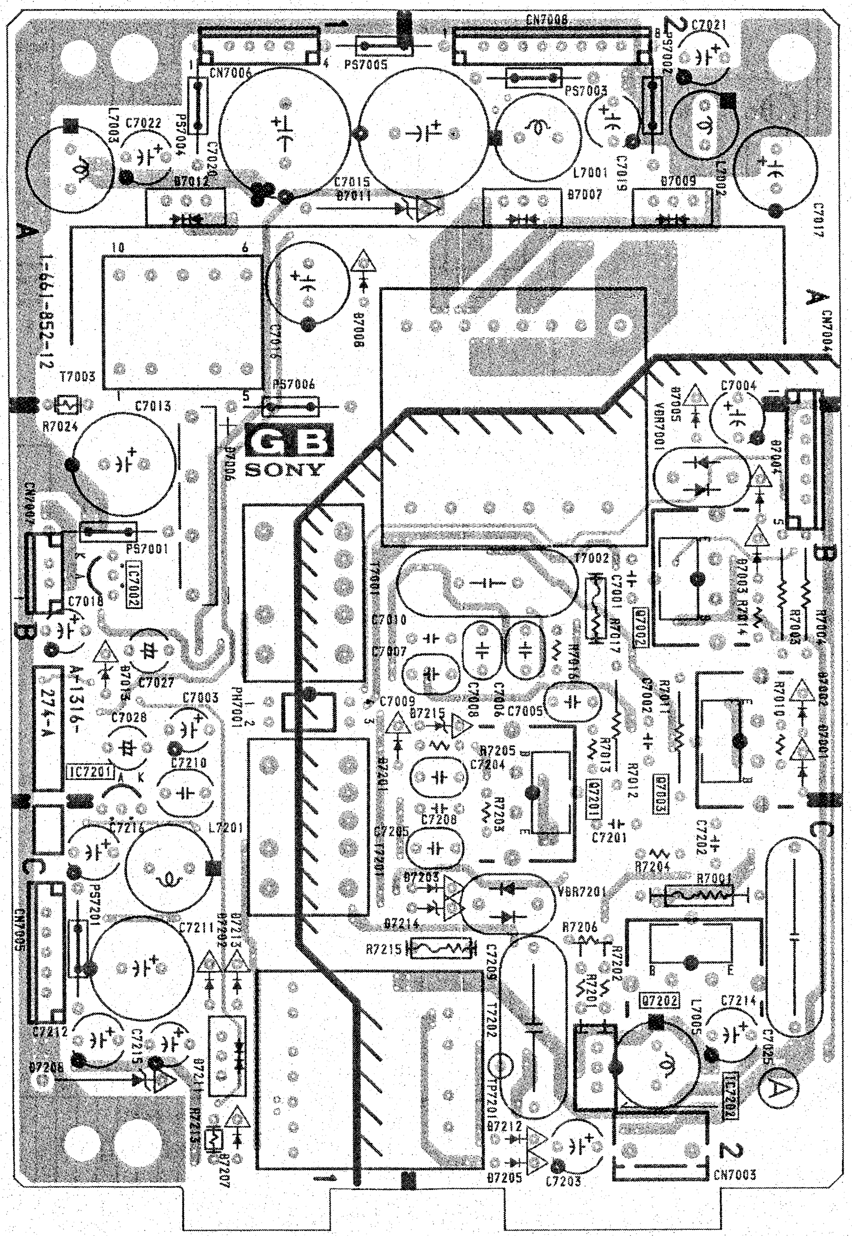
– F BOARD – <A Side>


A
B
L101
L102
C109
AC (N)
AC (L)
1-661-853-12
A-1245-593-A
2
C108
C107
C104
C106
T102
T101
C105
1
A
B
F10
CN103

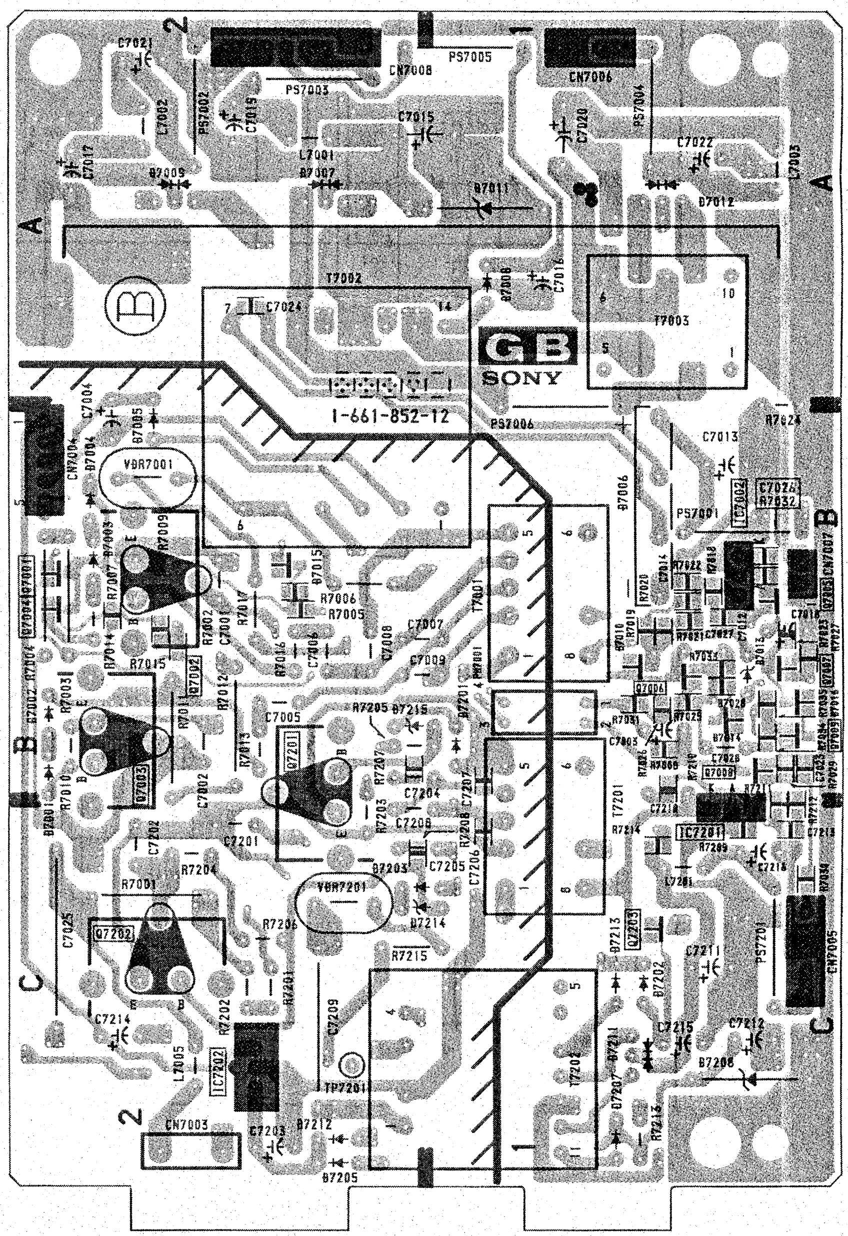
CN104
2P
EHT
C (N)
C (L)
GA BOARD
001

F [FILTER] **GB** [SET POWER SUPPLY] **GC** [IGNITER]

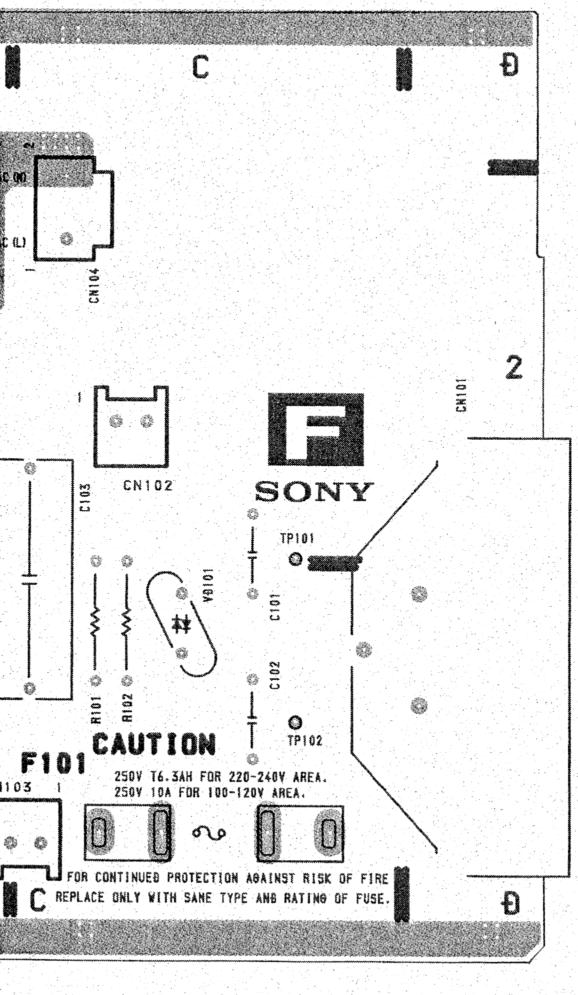
– GB BOARD – <A Side>

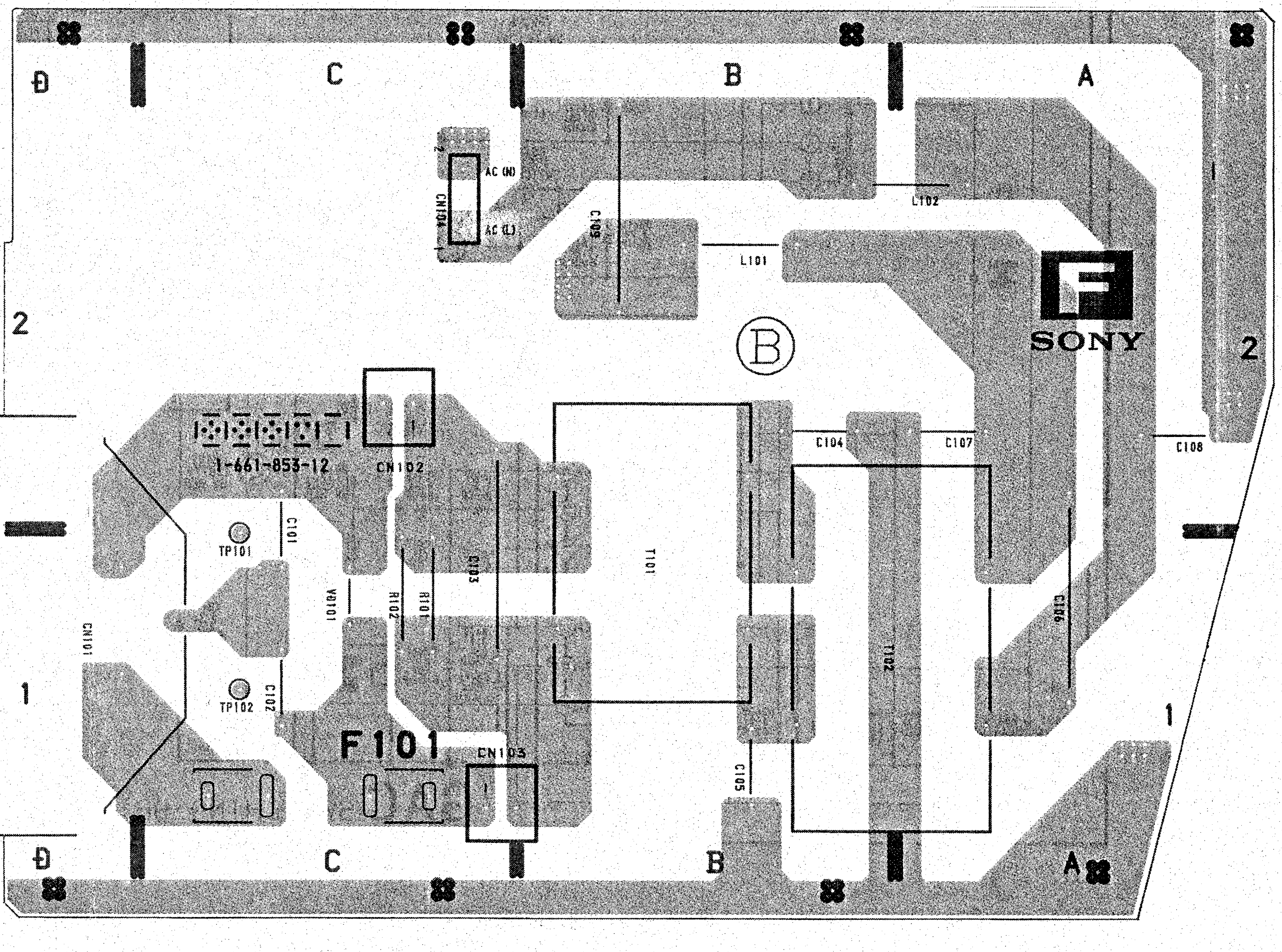

CN7008
CN7006
PS7005
PS7003
PS7002
C7021
L7003
C7022
PS7004
C7020
D7012
C7015
D7011
L7001
D7007
C7019
D7009
C7017
A
1-661-852-12
T7003
D7008
C7016
PS7006
C7013
R7024
GB
SONY
D7006
CN7004
C7004
D7005
VDR7001
CN7007
PS7001
IC7002
C7018
B
A-1316-
274-A
D7013
C7027
C7028
C7003
PH7001
T7002
T7001
C7010
C7007
C7009
C7008
C7006
C7005
R7013
R7012
Q7001
Q7002
R7017
R7016
D7004
R7003
D7003
R7014
R7010
D7002
D7001
R7011
IC7201
C7210
L7201
D7215
R7205
C7204
R7203
Q7201
C7201
Q7003
C7202
R7204
R7001
C
CN7005
PS7201
C7211
D7209
D7213
D7203
D7214
D7201
VDR7201
R7215
C7209
T7202
R7206
R7201
R7202
Q7202
L7005
C7214
C7025
IC7202
C7212
C7215
D7208
D7211
R7213
D7207
TP7201
D7212
D7205
L7203
CN7003
1
2

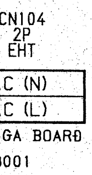
<B Side>


C7021
2
CN7008
PS7005
1
CN7006
PS7004
C7020
C7022
C7003
A
C7017
L7002
PS7002
C7019
PS7003
L7001
D7007
C7015
D7009
D7011
D7012
T7002
C7024
D7008
C7016
T7003
GB
SONY
1-661-852-12
PS7006
R7024
C7013
D7006
PS7001
IC7002
CN7007
B
CN7004
C7004
D7005
VDR7001
R7009
R7007
D7003
D7004
D7001
R7015
R7006
R7005
R7014
R7002
C7001
R7017
C7007
C7009
C7006
C7008
T7001
T7201
C7005
R7205
D7215
R7207
C7204
C7208
Q7201
Q7003
R7011
R7013
Q7002
R7012
R7003
R7010
D7002
D7201
R7001
R7204
C7202
C7201
R7202
VDR7201
D7203
C7205
C7206
R7206
D7214
R7215
C7025
Q7202
C7214
L7005
IC7202
CN7003
2
C7209
TP7201
C7203
D7212
D7205
T7202
D7207
R7213
D7211
C7215
C7212
D7208
C7211
PS7201
CN7005
C
IC7201
L7201
Q7203
D7213

<B Side>

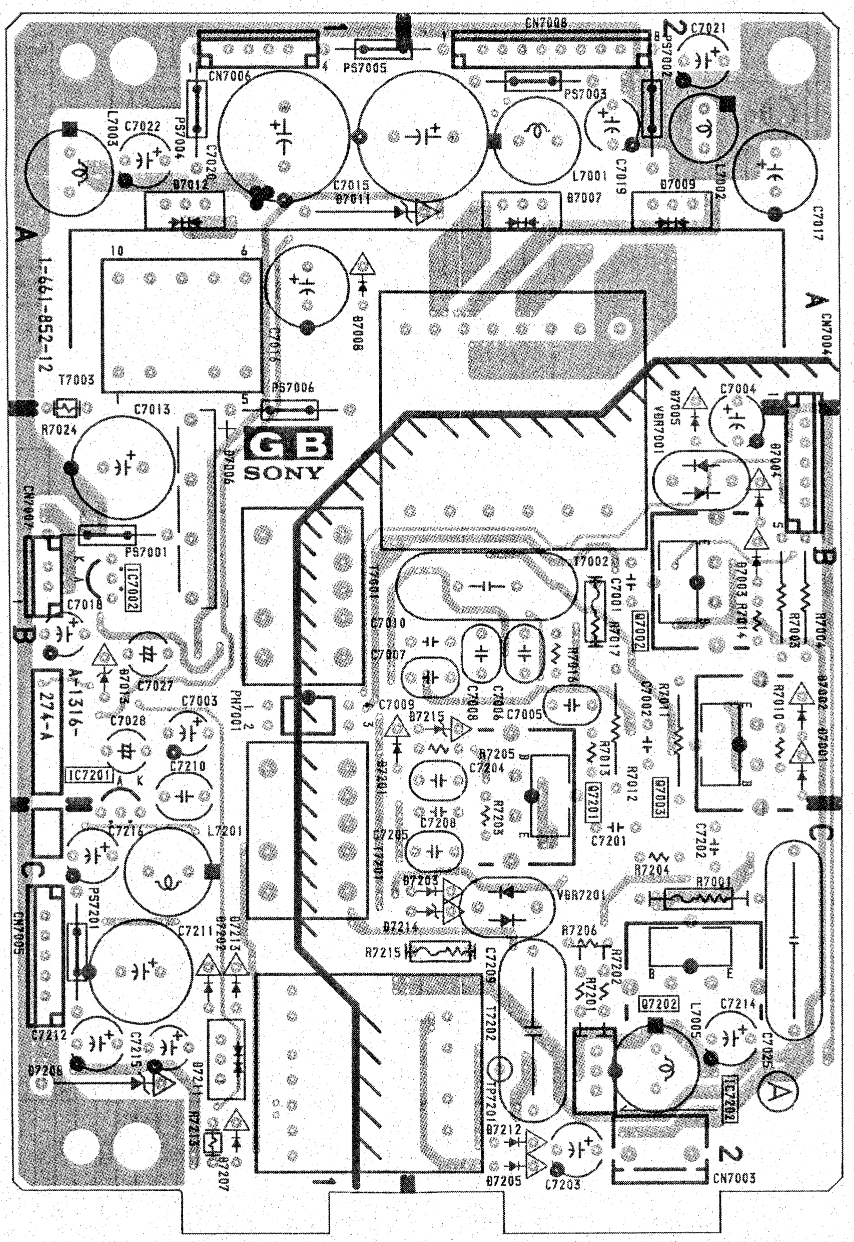

C
Ð
CN104
AC (L)
2
CN101
CN102
C103
F
SONY
TP101
VB101
C101
C102
R101
R102
TP102
F101
CAUTION
250V T6.3AH FOR 220-240V AREA.
250V 10A FOR 100-120V AREA.
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
CN103
C
Ð


Ð
C
B
A
CN104
AC (N)
AC (L)
C105
L101
L102
F
SONY
2
B
1-661-853-12
CN102
C104
C107
C108
TP101
C101
VB101
R102
R101
C103
T101
T102
C106
CN101
1
TP102
C102
F101
CN103
C105
1
Ð
C
B
A

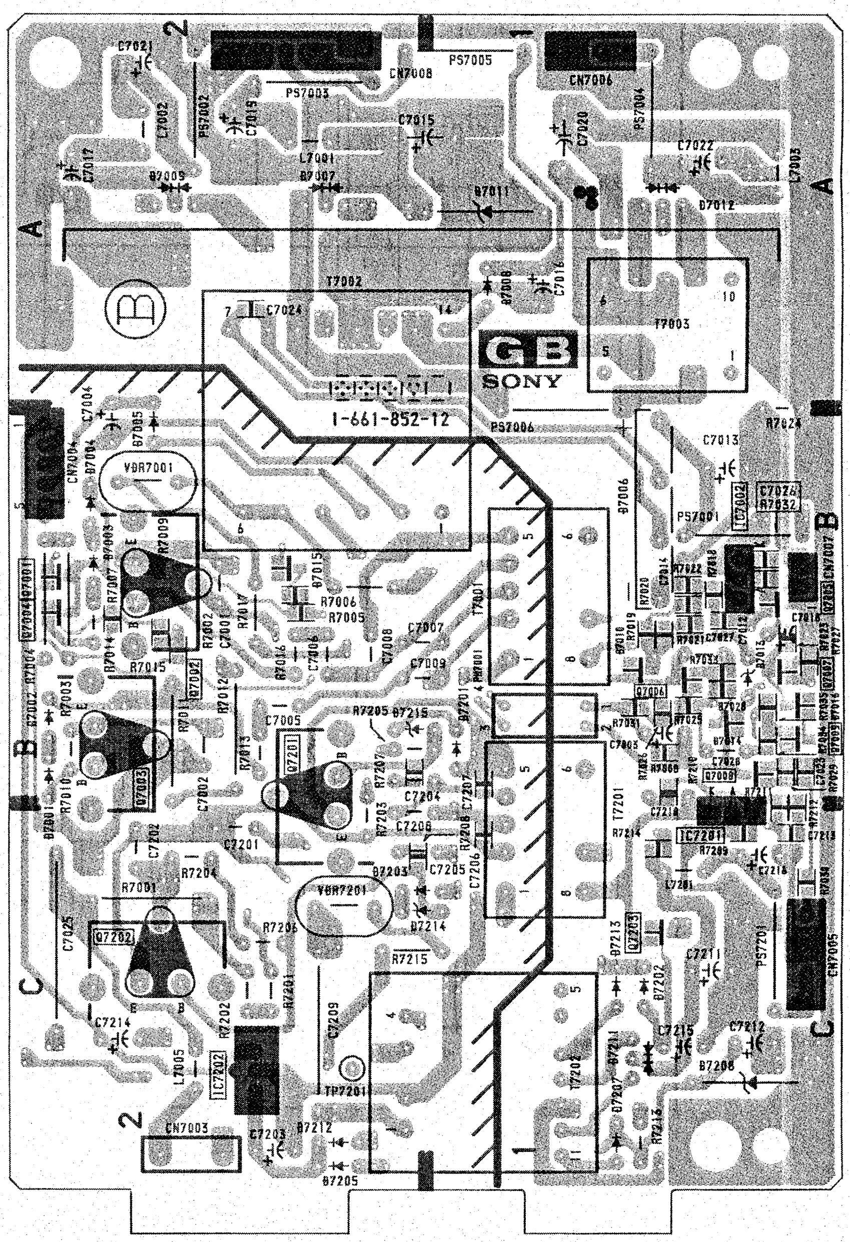

CN104
2P
EHT
C (N)
C (L)
GA BOARD
001

F [FILTER] **GB** [SET POWER SUPPLY] **GC** [IGNITER]

– GB BOARD – <A Side>


CN7006
PS7005
CN7008
PS7003
C7021
C7022
L7003
C7020
PS7004
C7015
D7011
L7001
D7007
C7019
D7009
L7002
C7017
1-661-852-12
T7003
PS7006
C7013
R7024
D7008
GB
SONY
CN7007
PS7001
IC7002
C7018
CN7004
C7004
VBR7001
D7005
D7004
T7002
T7001
A-1316-
274-A
C7027
C7028
C7003
IC7201
C7210
PH7001
C7009
D7215
C7010
C7007
C7008
C7006
C7005
R7205
C7204
R7203
Q7201
R7013
R7012
Q7003
R7010
R7016
R7017
R7001
R7011
Q7002
R7003
R7014
R7004
C7201
C7202
R7204
R7001
VBR7201
R7206
Q7202
L7005
C7214
C7025
IC7202
CN7003
L7201
PS7201
C7211
C7216
C7212
C7215
D7208
D7211
D7213
D7207
D7205
D7212
C7203
C7209
T7202
TP7201
R7215
D7214
D7203
C7205
C7208
A
B
C
1
2

<B Side>


C7021
CN7008
PS7005
CN7006
C7002
PS7002
C7019
PS7003
C7015
L7001
D7007
C7017
D7005
D7011
C7020
PS7004
C7022
C7003
D7012
T7002
C7024
D7008
C7016
T7003
GB
SONY
1-661-852-12
PS7006
R7024
C7013
D7006
PS7001
IC7002
CN7007
C7004
CN7004
D7004
VBR7001
Q7001
R7009
R7008
Q7003
R7011
R7003
R7014
R7015
R7013
R7012
Q7002
C7001
R7006
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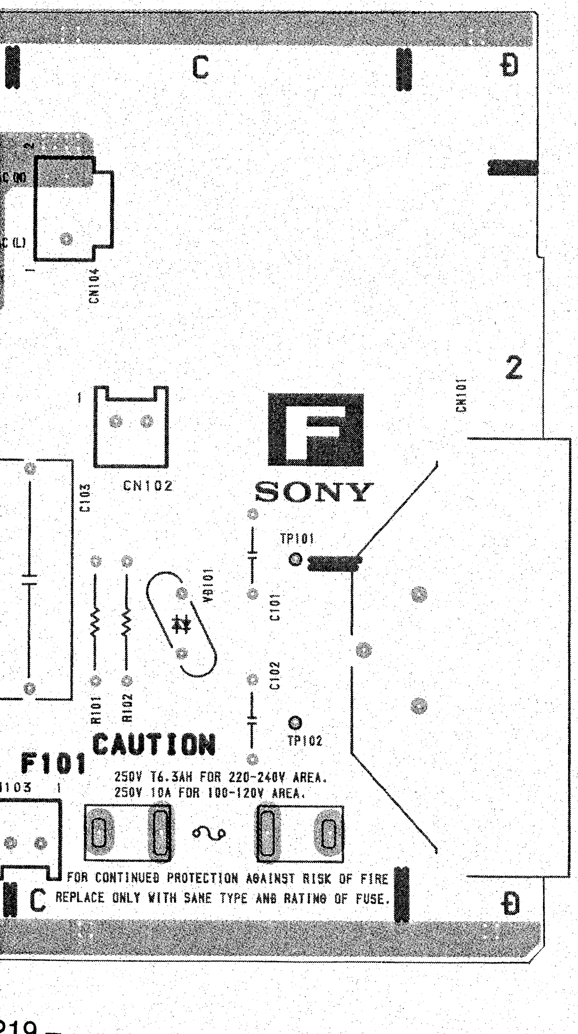
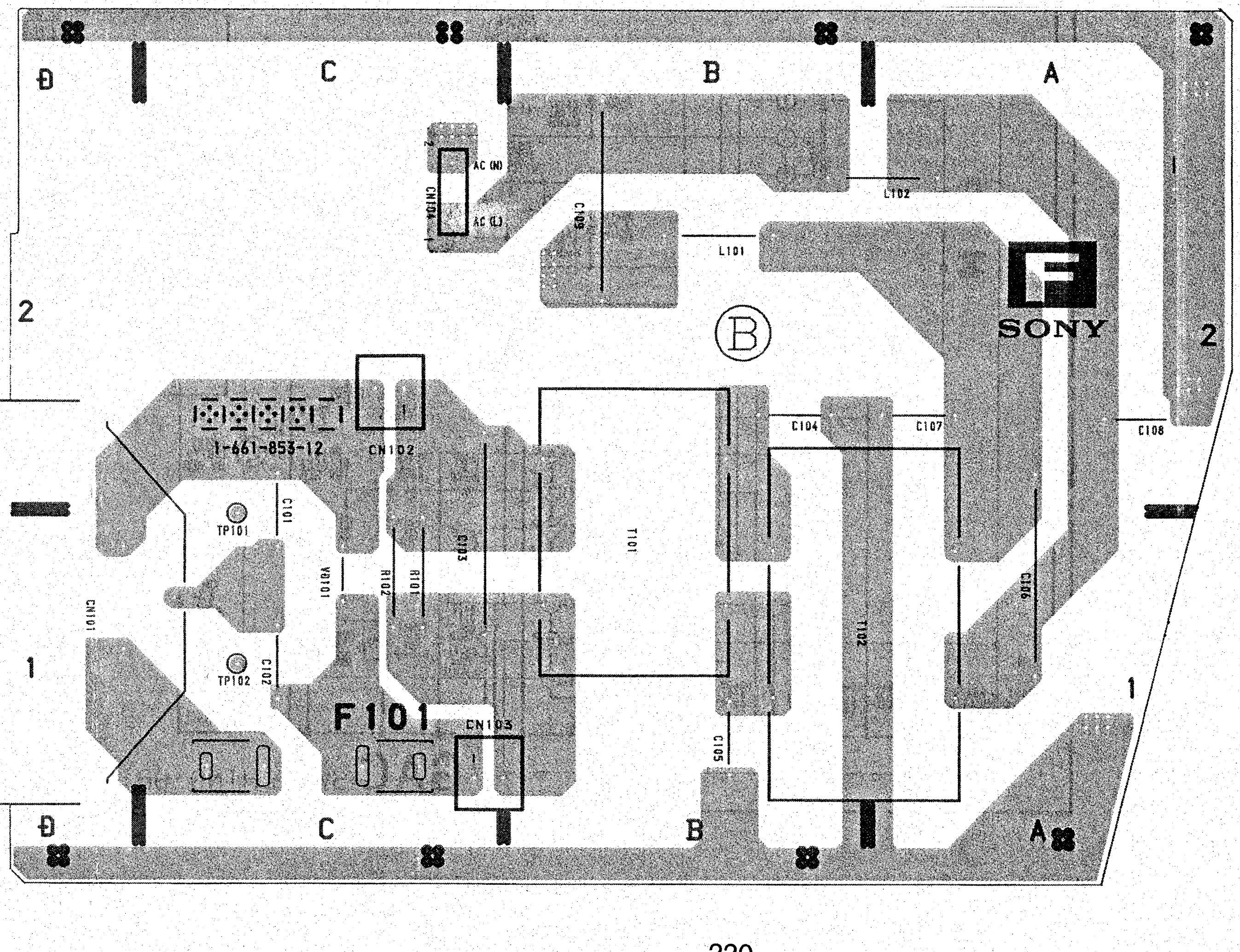
C7015
C7006
C7008
C7007
C7009
T7001
Q7201
C7005
R7205
D7215
R7207
C7204
C7208
C7207
R7203
C7201
C7202
C7206
C7205
D7201
R7201
R7204
R7209
VBR7201
R7206
D7214
R7215
C7025
Q7202
C7214
L7005
IC7202
R7202
C7209
TP7201
CN7003
C7203
D7212
D7205
T7201
T7202
R7214
IC7201
L7201
D7213
Q7203
C7211
L7215
C7212
PS7201
CN7005
D7208
A
B
C
1
2

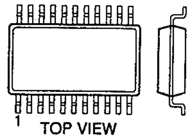
<B Side>


C
CN104
CN101
2
CN102
C103
F
SONY
TP101
VB101
C101
C102
R101
R102
TP102
F101
CAUTION
250V T6.3AH FOR 220-240V AREA.
250V 10A FOR 100-120V AREA.
103
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
C


C
B
A
CN104
AC (N)
AC (L)
C103
L102
L101
F
SONY
B
2
1-661-853-12
CN102
C104
C107
C108
TP101
C101
VB101
R102
R101
C123
T101
CN101
TP102
C102
T102
C105
C106
1
F101
CN103
C
B
A

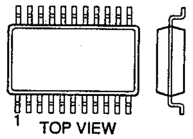
7-5. SEMICONDUCTORS

BA10358F-E2
MC100ELT20
MM1112XF
NJM2162M (TE2)
NJM2240M
NJM2904M
ST75157PS-ELL2000
TC4W66F (TE12R)
TC7W14FU (TE12R)
TC7W241FU-TE12R
TC7W32FU
TC7W74F
TK16031AMTL
TL431BCDR2
UPC358G2
UPC393G2



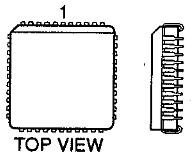
8pin SOP

BA7657F-E2
ICS1522MT
UPD458805G-25



24pin SOP

BT121KPJ80
PC16550DV



44pin QFJ

CXA1779P
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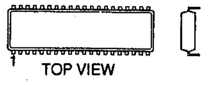
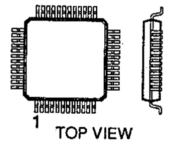
TDA4650/V4



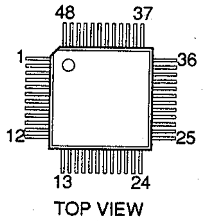
28pin DIP

CXA1839Q-T6



48pin QFP

CXA1855Q


48
37
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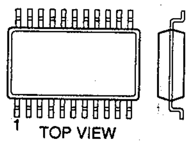
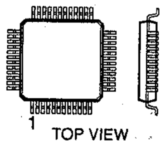
13
24
TOP VIEW

CXA1875AM
HD14053BFP
MC14053BF
MC74HC4051F
MC74HC4538F
PC74HC4538D-T
PCF8574T-T
TC74HC123AF
TC74VHC138F
TC74VHC157F
TC74VHC175F
TDA4665T-T



16pin SOP

CXA2111R



52pin QFP

CXA2112R
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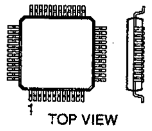
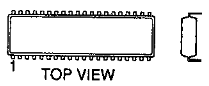


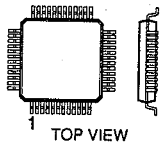
64pin QFP

CXA8038P
UC2854N



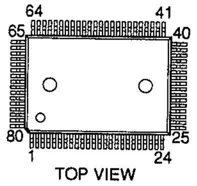
16pin DIP

CXD108-143Q



160pin QFP

CXD2024AQ
CXD2442Q
CXD303-105Q


64
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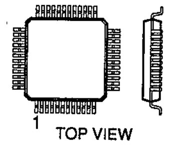
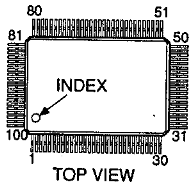
TOP VIEW

CXD2302Q



32pin QFP

CXD305-114Q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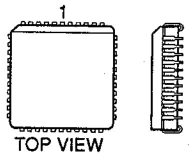
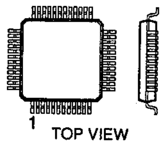
30
TOP VIEW

CY7C136-55JC



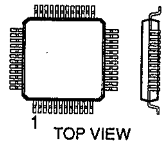
52pin QFJ

HD6433048SA10F



100 pin QFP

HD6433337WA08F



80pin QFP

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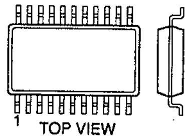

44pin SOP

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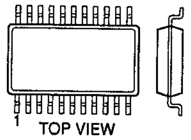
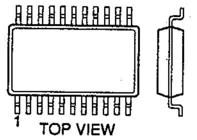


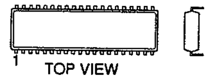
28pin SOP

LM2901M
MAX489ECSD-TE2
MC74HC32AF
MC74HC4078F
NJM2901M
PC74HC00D-T
PC74HC08D-T
PC74HC126D-T
PC74HC132D-T
PC74HC14D-T
TC74HC32AF
TC74VHC00F
TC74VHC04F
TC74VHC08F
TC74VHC11F
TC74VHC20F
TC74VHC74F
TLC2932IPW
UPC324G2



14pin SOP

LM358P
MM1170BFB
UPC358C



8pin DIP

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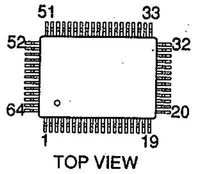
MB671469PF
MB90091APF-116


51
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64
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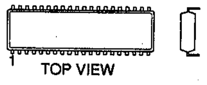
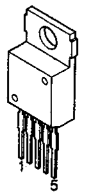
19
TOP VIEW

MB88141PF

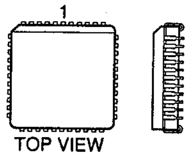


24pin DIP

MC14538BF

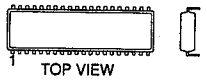


M27C1001-12C1
M27C1001-FONT-SX1628
M27C1001-TABLE-SX1628



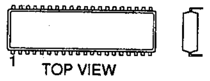
32pin QFJ

M27C2001-10F1
M27C2001-SX1623
M48Z30Y-100PMI
TDA9141-N2C



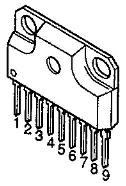
32pin DIP

M52321SP

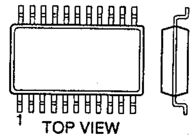


36pin DIP

M54544AL



M6M80041FP



10pin SOP

M62352GP-75E
M62399FP
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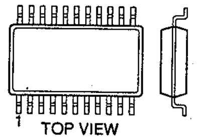
TC74VHC240F
TC74VHC244F
TC74VHC574F
TDA7315D013TR



20pin SOP

NJM78M09FA
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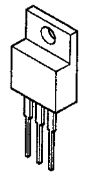
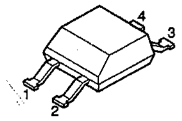
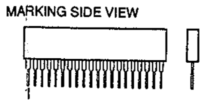


PC123F2



PC74HC32D-T


MARKING SIDE VIEW
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9pin SIP

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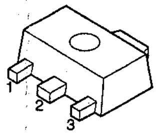
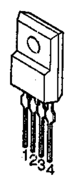
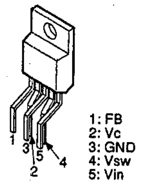
PQ05SZ5U
PQ12SZ1U
RH5VL51AA-T1
TA78M09F (TE16L)



PQ12RF11



PQ20VZ5U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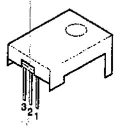
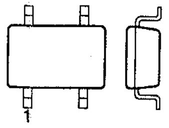
4
1: FB
2: Vc
3: GND
4: Vsw
5: Vin

SBX1780-51

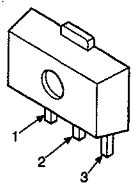


SC7S00F
TC7S04F (TE85R)
TC7S08F
TC7S08FU
TC7S66F
TC7SH32FU
TC7W08FU

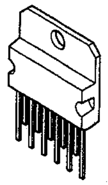


5pin CHIP

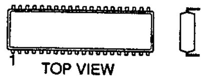
TA78L12F



TDA2009A

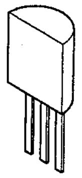


TDA2579B

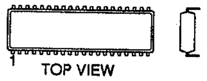


18pin DIP

UPC1093J-1-T



UPC1377C



22pin DIP

DTA144EKA-T146
DTC114YKA-T146
DTC144EKA-T146
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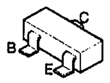
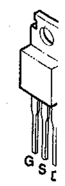
2SA1462-Y33
2SB1440S-TX
2SC2712-YG
2SC3326N-A
2SC3545-T43

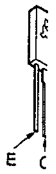


IRFI-84



2SB772-
2SD882-

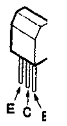
LET



2SB799-
2SD162

2SC483
2SC483

2SD774-



03P2M

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ANO

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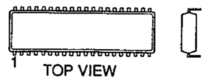

8pin DIP

MB654842UPF
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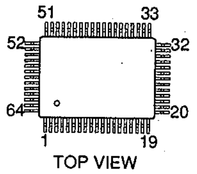
51
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64
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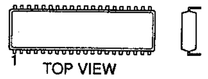
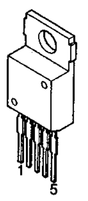
19
TOP VIEW

MB88141PF



24pin DIP

MC14538BF



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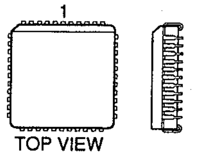
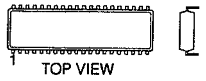
M27C1001-FONT-SX1628
M27C1001-TABLE-SX1628



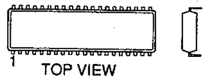
32pin QFJ

M27C2001-10F1
M27C2001-SX1623
M48Z30Y-100PMI
TDA9141-N2C



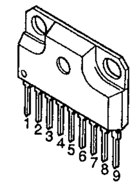
32pin DIP

M52321SP



36pin DIP

M54544AL



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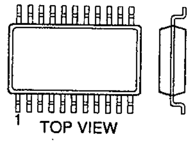

10pin SOP

M62352GP-75E
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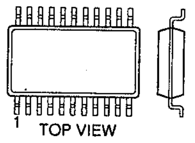

20pin SOP

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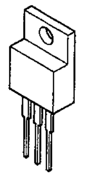
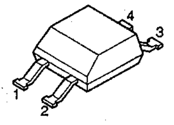
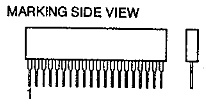


PC123F2



PC74HC32D-T


MARKING SIDE VIEW
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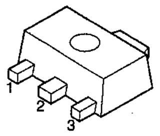
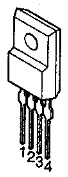
9pin SIP

PQ05SZ1U
PQ05SZ5U
PQ12SZ1U
RH5VL51AA-T1
TA78M09F (TE16L)



PQ12RF11



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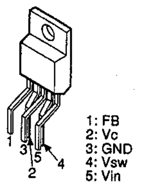
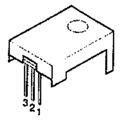

1
3
5
4
2
1: FB
2: Vc
3: GND
4: Vsw
5: Vin

SBX1780-51



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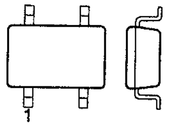
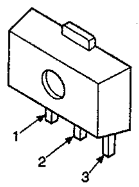
TC7S08F
TC7S08FU
TC7S66F
TC7SH32FU
TC7W08FU



5pin CHIP

TA78L12F



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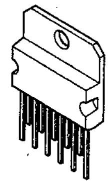

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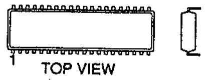

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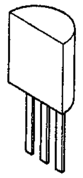

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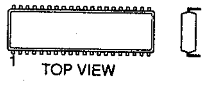

22pin DIP

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DTC114YKA-T146
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2SA1462-Y33
2SB1440S-TX
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2SC3326N-A
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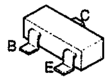

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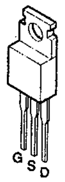

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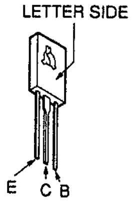
LETTER SIDE
E
C
B

2SB799-ML
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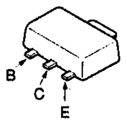

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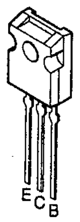

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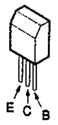

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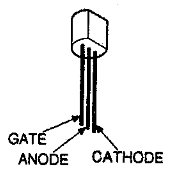
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ANODE
CATHODE

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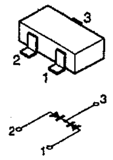
1SS184
1S2837



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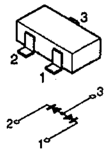

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K1V16TA
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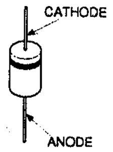
RD18F-B2


CATHODE
ANODE

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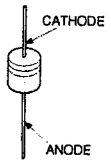
D1NS4
RB441Q
RD18ES-B2
RD2.2ES-B2
RD7.5ES-B1
RD7.5ESB2
1SS119-25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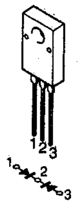
ANODE

D10SC4M



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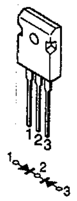

D4SBS4-F
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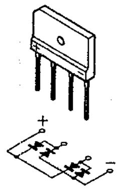

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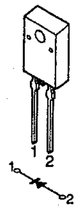

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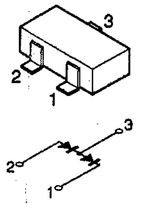
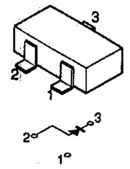


MA3360-M
RD18M-B2
RD36M-B



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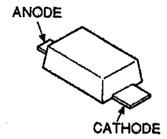
ANODE
CATHODE

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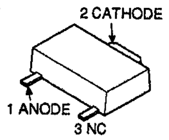
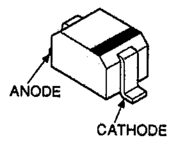
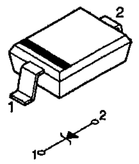

2 CATHODE
1 ANODE
3 NC

RD11SB2-T1
RD12SB1-T1
RD12SB2
RD18SB2-T1
RD6.2SB2-T1
RD8.2SB2-T1
RD9.1S-B2
1SS355


ANODE
CATHODE

RD5.6SB2



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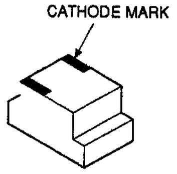
SEC1401C
SEC1801C
SEC1901C


CATHODE MARK

SECTION 8
EXPLODED VIEWS

NOTE:

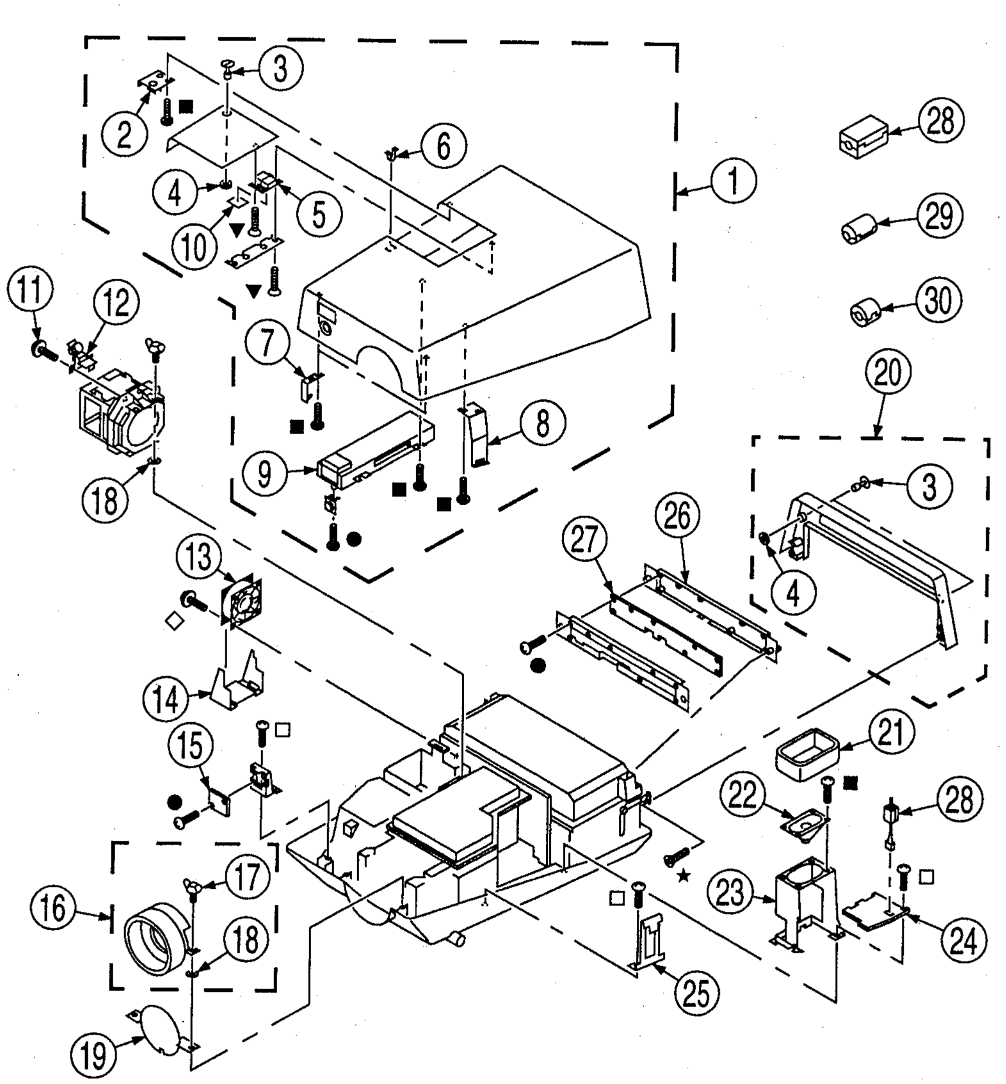
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

8-1. COVER

● : 7-685-648-79 +BVTP 3X12
■ : 7-685-661-79 +BVTP 4X12
▼ : 7-685-248-19 +KTP 3X12
□ : 7-685-661-29 +BVTP 4X12
◇ : 7-682-970-09 +PSW 4X40
★ : 7-685-249-14 +KTP 3X14



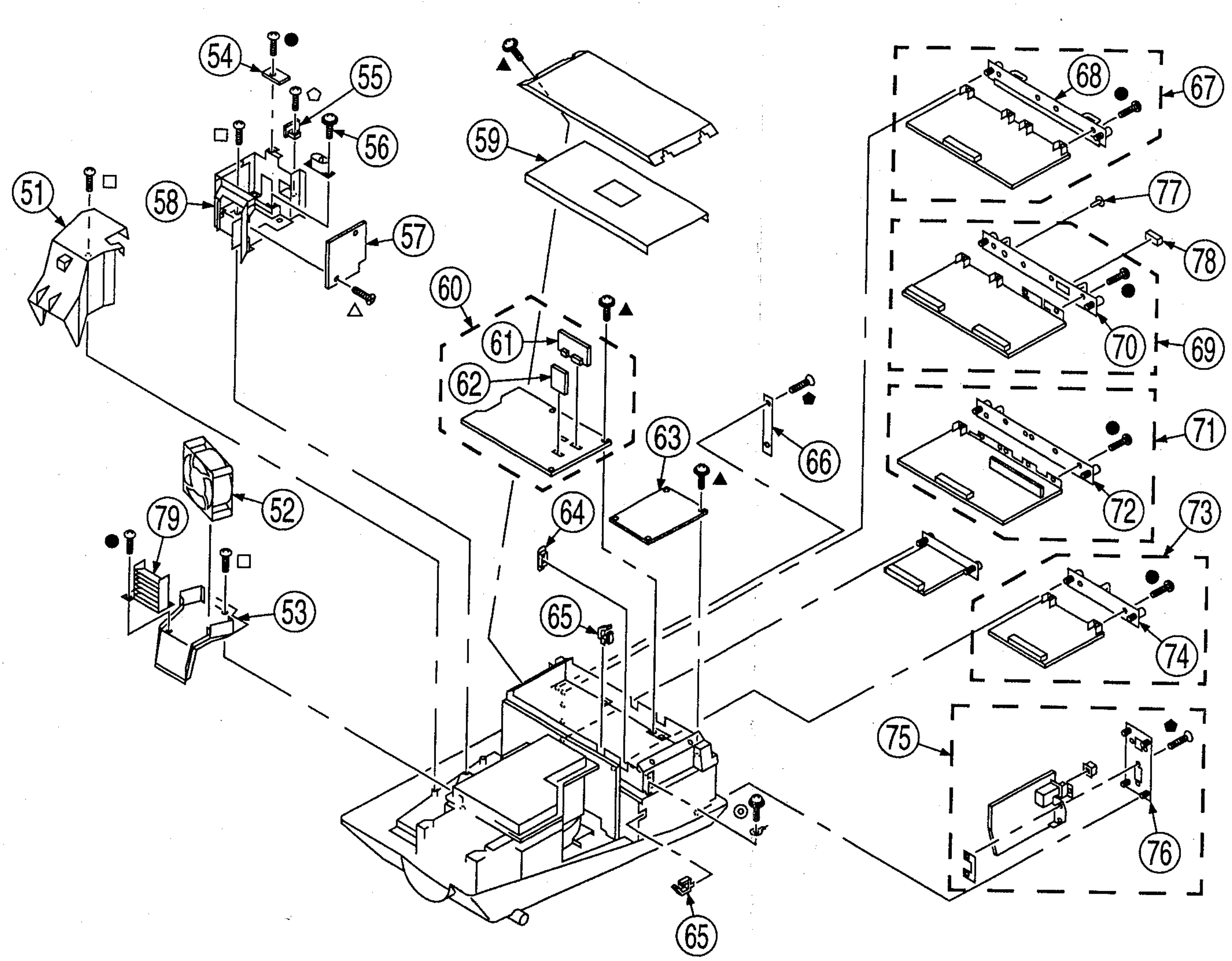
REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4034-126-1	CABINET ASSY	2-10
2	* X-4034-112-1	PLATE ASSY, FASNER	
3	* 4-056-589-01	FASTENER	
4	* 4-056-505-01	RING, RUBBER	
5	4-055-964-01	HINGE, BLIND	
6	3-703-574-00	RETAINER, DOOR	
7	* 4-056-601-01	HOLDER, CABINET	
8	* 4-056-637-01	HOOK, CABINET	
9	* 4-056-653-01	POCKET, REMOTE CONTROL	
10	* 4-059-840-01	LID (H)	
11	4-382-854-11	SCREW (M3X10), P, SW (+)	
12	* 4-056-622-01	CONTROLLER A, AIR	
13	1-698-877-11	FAN, DC	
14	* 4-056-652-01	DUCT, SIDE FAN	
15	* A-1390-773-A	N BOARD, COMPLETE	
16	* X-4034-119-1	HOOD ASSY, LENS	17,18
17	* 4-056-602-01	BOLT, WING	
18	4-033-712-01	WASHER	
19	* 4-061-218-01	COVER, HOLE	
20	* X-4034-982-1	PANEL ASSY, REAR	3,4
21	* 4-056-607-01	GUARD (C), LIGHTING	
22	1-505-461-11	SPEAKER (9X5CM)	
23	* 4-056-667-01	HOLDER, SPEAKER	
24	* A-1311-489-A	GC BOARD, COMPLETE	
25	* 4-056-638-01	HOOK, BASE	
26	* X-4034-129-1	PANEL ASSY, CONTROL	
27	* A-1375-167-A	H BOARD, COMPLETE	
28	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
29	1-500-051-11	BEAD, FERRITE (WITH CASE)	
30	1-500-459-11	FILTER, CLAMP (FERRITE CORE)	

8-2. CHASSIS

● : 7-685-648-79 +BVTP 3X12
▲ : 7-682-904-11 +PWH 4X8
⬟ : 7-682-248-09 +K 3X8
⬠ : 7-682-547-04 +P 3X6
△ : 7-685-246-19 +KTP 3X8
□ : 7-685-661-29 +BVTP 4X12
◎ : 7-682-962-01 +PSW 4X10

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* X-4034-121-1	DUCT (120) (B) ASSY	
52	1-698-854-11	FAN, DC	
53	* X-4034-120-1	DUCT (120) (A) ASSY	
54	* A-1373-645-A	UA BOARD, COMPLETE	
55	* A-1342-364-A	V BOARD, COMPLETE	
56	4-054-855-11	SCREW (+PWH M3X10), MACHINE	
57	* 4-056-606-01	GUARD B, LIGHTING	
58	* 4-056-666-01	GUIDE, LAMP HOUSE	
59	* 4-056-631-01	SHEET, POWER(TOP)	
60	⚠* A-1316-273-A	GA BOARD, COMPLETE	61,62
61	* A-1311-491-A	GAB BOARD, COMPLETE	
62	* A-1311-492-A	GAC BOARD, COMPLETE	
63	⚠* A-1316-274-A	GB BOARD, COMPLETE	
64	* 4-056-414-01	BUSHING, SQUARE	
65	* 4-316-015-00	HOLDER, WIRE	
66	* 4-056-513-01	PANEL (K)	
67	* A-1135-922-A	BB BOARD, COMPLETE	68
68	* X-4034-123-1	PANEL (BB) ASSY, REAR	
69	* A-1306-555-A	M BOARD, COMPLETE	70
70	* X-4034-125-1	PANEL (M) ASSY, REAR	
71	* A-1135-923-A	BA BOARD, COMPLETE (S800U)	72
	* A-1135-925-A	BA BOARD, COMPLETE (S800M)	72
72	* X-4034-122-1	PANEL (BA) ASSY, REAR	
73	* A-1135-869-A	BC BOARD, COMPLETE	74
74	* X-4034-124-1	PANEL (BC) ASSY, REAR	
75	* A-1245-586-A	F BOARD, COMPLETE (S800M)	76
	* A-1245-592-A	F BOARD, COMPLETE (S800U)	76
76	* X-4034-118-1	PANEL (F) ASSY, REAR	
77	3-728-267-01	COVER, 3.5 JACK	
78	* 3-673-948-11	CAP, DUST	
79	4-060-624-01	DUCT, LIGHTING	

8-3. BASE

● : 7-
■ : 7-
◆ : 7-
⬟ : 7-
⬢ : 7-
○ : 7-
□ : 7-
⬠ : 7-
⬡ : 7-

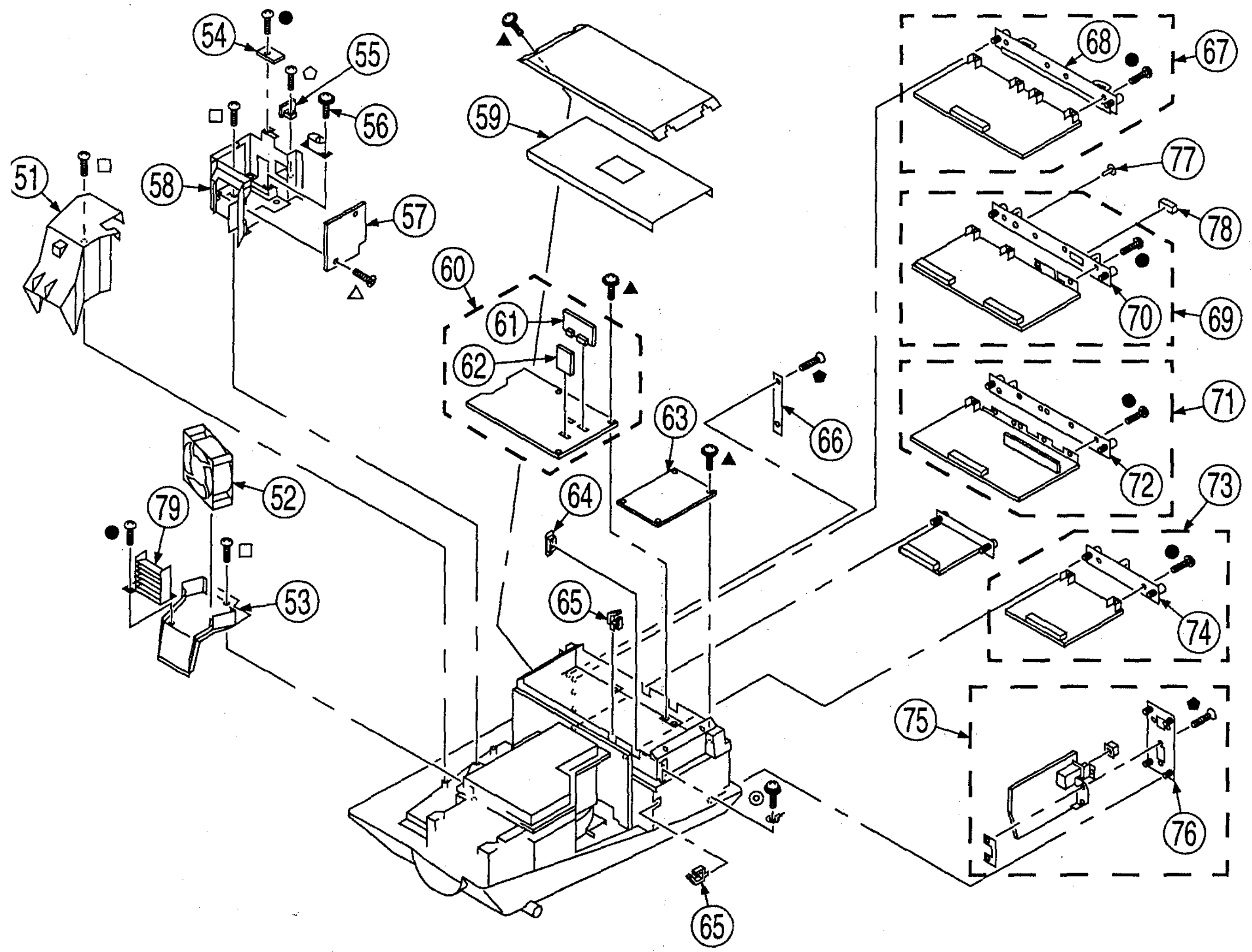
REF. NO.	PAR
101	* X-403
102	4-055-
103	* 4-056-
104	* 4-056-
105	* 4-056-
106	* A-139
107	* A-113
108	* 4-056-
109	* A-133
110	* A-137
111	* 4-056-
112	* 4-056-
113	* 4-056-
114	1-698-
115	* 4-056-

8-2. CHASSIS

● : 7-685-648-79 +BVTP 3X12
▲ : 7-682-904-11 +PWH 4X8
⬟ : 7-682-248-09 +K 3X8
⬠ : 7-682-547-04 +P 3X6
△ : 7-685-246-19 +KTP 3X8
□ : 7-685-661-29 +BVTP 4X12
◎ : 7-682-962-01 +PSW 4X10

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

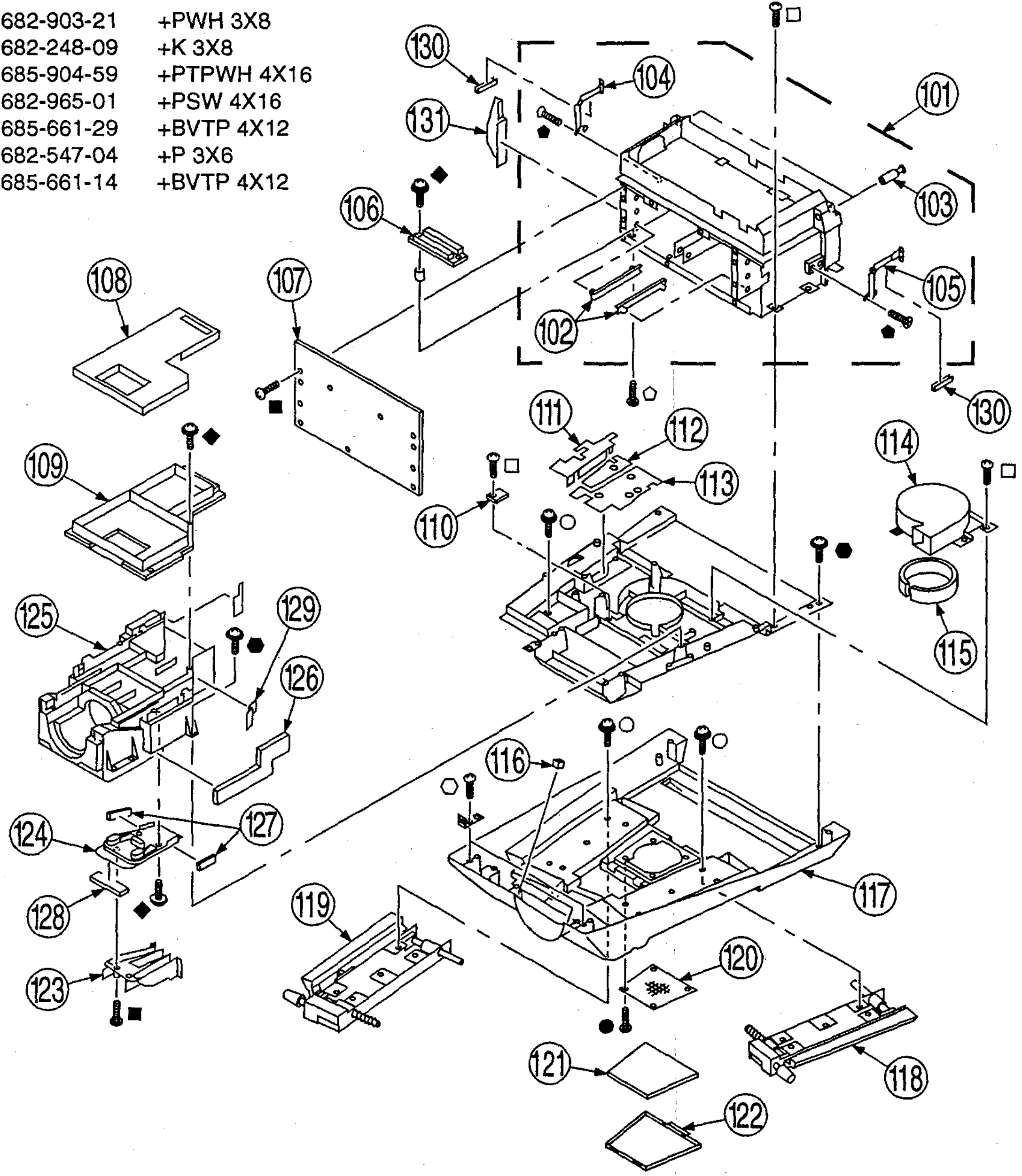


EF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4034-121-1	DUCT (120) (B) ASSY	
2	1-698-854-11	FAN, DC	
3	* X-4034-120-1	DUCT (120) (A) ASSY	
4	* A-1373-645-A	UA BOARD, COMPLETE	
5	* A-1342-364-A	V BOARD, COMPLETE	
6	4-054-855-11	SCREW (+PWH M3X10), MACHINE	
7	* 4-056-606-01	GUARD B, LIGHTING	
8	* 4-056-666-01	GUIDE, LAMP HOUSE	
9	* 4-056-631-01	SHEET, POWER(TOP)	
0	⚠* A-1316-273-A	GA BOARD, COMPLETE	61,62
1	* A-1311-491-A	GAB BOARD, COMPLETE	
2	* A-1311-492-A	GAC BOARD, COMPLETE	
3	⚠* A-1316-274-A	GB BOARD, COMPLETE	
4	* 4-056-414-01	BUSHING, SQUARE	
5	* 4-316-015-00	HOLDER, WIRE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
66	* 4-056-513-01	PANEL (K)	
67	* A-1135-922-A	BB BOARD, COMPLETE	68
68	* X-4034-123-1	PANEL (BB) ASSY, REAR	
69	* A-1306-555-A	M BOARD, COMPLETE	70
70	* X-4034-125-1	PANEL (M) ASSY, REAR	
71	* A-1135-923-A	BA BOARD, COMPLETE (S800U)	72
	* A-1135-925-A	BA BOARD, COMPLETE (S800M)	72
72	* X-4034-122-1	PANEL (BA) ASSY, REAR	
73	* A-1135-869-A	BC BOARD, COMPLETE	74
74	* X-4034-124-1	PANEL (BC) ASSY, REAR	
75	* A-1245-586-A	F BOARD, COMPLETE (S800M)	76
	* A-1245-592-A	F BOARD, COMPLETE (S800U)	76
76	* X-4034-118-1	PANEL (F) ASSY, REAR	
77	3-728-267-01	COVER, 3.5 JACK	
78	* 3-673-948-11	CAP, DUST	
79	4-060-624-01	DUCT, LIGHTING	

8-3. BASE

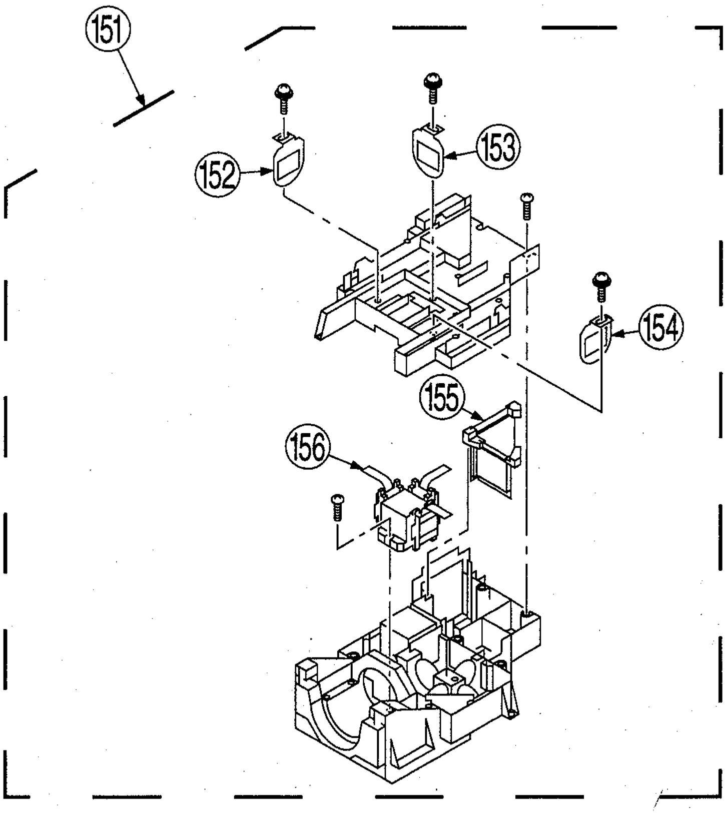
● : 7-685-648-79 +BVTP 3X12
■ : 7-685-661-79 +BVTP 4X12
◆ : 7-682-903-21 +PWH 3X8
⬟ : 7-682-248-09 +K 3X8
⬢ : 7-685-904-59 +PTPWH 4X16
○ : 7-682-965-01 +PSW 4X16
□ : 7-685-661-29 +BVTP 4X12
⬠ : 7-682-547-04 +P 3X6
⬡ : 7-685-661-14 +BVTP 4X12



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* X-4034-130-1	BOX ASSY, PWB	102-105
102	4-055-970-01	RAIL (S), PC BOARD GUIDE	
103	* 4-056-592-01	FASTENER, LOCK	
104	* 4-056-634-01	STAY (L)	
105	* 4-056-635-01	STAY (R)	
106	* A-1390-774-A	X BOARD, COMPLETE	
107	* A-1131-219-A	BM BOARD, COMPLETE	
108	* 4-056-673-01	CASE (TOP LID), C SHIELD	
109	* A-1335-095-A	C BOARD, COMPLETE	
110	* A-1373-644-A	UB BOARD, COMPLETE	
111	* 4-056-620-01	SHEET (C), HEAT	
112	* 4-056-512-01	SHEET (D), HEAT	
113	* 4-056-621-01	SHEET (E), HEAT	
114	1-698-855-11	FAN, DC	
115	* 4-056-605-01	SHEET C, FAN	

REF. NO.	PART NO.	DESCRIPTION	REMARK
116	* 4-056-581-01	CUSHION (A)	
117	* 4-056-664-01	BASE	
118	* 4-056-669-01	HANDLE (R)	
119	* 4-056-670-01	HANDLE (L)	
120	* 4-056-649-01	NET, FAN	
121	4-056-656-01	FILTER, FAN	
122	* 4-056-665-01	COVER, FILTER	
123	* 4-056-630-01	DUCT (TOTO)	
124	* 4-056-647-01	COVER, DUCT	
125	* 1-758-066-11	OPTICAL UNIT	
126	* 4-056-604-01	SHEET B, FAN	
127	* 4-056-510-01	SHEET (D), FAN	
128	* 4-056-511-01	SHEET (E), FAN	
129	4-060-626-01	STOPPER (B), LIGHT	
130	* 4-059-839-01	EDGING (CE)	
131	4-060-625-01	STOPPER (A), LIGHT	

8-4. OPTICAL UNIT



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	* 1-758-066-11	OPTICAL UNIT	152-156
152	9-980-898-01	HOLDER, POLARIZATION PLATE (R)	
153	9-980-897-01	HOLDER, POLARIZATION PLATE (G)	
154	9-980-896-01	HOLDER, POLARIZATION PLATE (B)	
155	9-980-293-01	LATCH SET, FLYEYE LENS	
156	9-980-895-01	PRISM BLOCK	

SECTION 9
ELECTRICAL PARTS LIST

BM **BC**

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

VPL-S800U/S800M

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1131-219-A	BM BOARD, COMPLETE ***********************			
		<CAPACITOR>			
C201	1-126-935-11	ELECT	470MF	20%	16V
C202	1-126-935-11	ELECT	470MF	20%	16V
C203	1-126-935-11	ELECT	470MF	20%	16V
C204	1-126-935-11	ELECT	470MF	20%	16V
		<CONNECTOR>			
CN201	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN202	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN203	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN204	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN205	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN206	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN207	1-778-391-11	SOCKET, PC CONNECTOR 96P			
CN208	* 1-564-517-11	PLUG, CONNECTOR 2P			
CN209	* 1-564-518-11	PLUG, CONNECTOR 3P			
CN210	* 1-564-521-11	PLUG, CONNECTOR 6P			
CN211	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN212	* 1-564-517-11	PLUG, CONNECTOR 2P			
CN213	* 1-564-520-11	PLUG, CONNECTOR 5P			
CN214	1-564-523-11	PLUG, CONNECTOR 8P			
CN215	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN216	* 1-564-518-11	PLUG, CONNECTOR 3P			
CN217	* 1-564-522-11	PLUG, CONNECTOR 7P			
CN218	* 1-564-521-11	PLUG, CONNECTOR 6P			
CN219	1-564-517-11	PLUG, CONNECTOR 2P			
CN220	* 1-564-518-11	PLUG, CONNECTOR 3P			
CN221	* 1-564-521-11	PLUG, CONNECTOR 6P			
CN222	* 1-564-518-11	PLUG, CONNECTOR 3P			
CN223	* 1-564-520-11	PLUG, CONNECTOR 5P			
CN224	* 1-564-518-11	PLUG, CONNECTOR 3P			
		<COIL>			
L201	1-412-533-21	INDUCTOR 47UH			
L202	1-412-533-21	INDUCTOR 47UH			
L203	1-412-533-21	INDUCTOR 47UH			
L204	1-412-533-21	INDUCTOR 47UH			

****

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1135-869-A	BC BOARD, COMPLETE *********************			
	* X-4034-124-1	PANEL (BC) ASSY, REAR			
	4-055-965-01	SCREW(S), M3			
	4-055-966-01	SPRING (S), COMPRESSION			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-682-248-09	SCREW +K 3X8			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3			
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3			
		<CAPACITOR>			
C4001	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4002	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4003	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4004	1-126-961-11	ELECT	2.2MF	20%	50V
C4005	1-126-961-11	ELECT	2.2MF	20%	50V
C4006	1-126-961-11	ELECT	2.2MF	20%	50V
C4007	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4009	1-126-964-11	ELECT	10MF	20%	50V
C4010	1-126-967-11	ELECT	47MF	20%	16V
C4011	1-126-964-11	ELECT	10MF	20%	50V
C4012	1-126-967-11	ELECT	47MF	20%	16V
C4013	1-126-964-11	ELECT	10MF	20%	50V
C4014	1-126-967-11	ELECT	47MF	20%	16V
C4015	1-126-933-11	ELECT	100MF	20%	16V
C4016	1-126-933-11	ELECT	100MF	20%	16V
C4063	1-126-933-11	ELECT	100MF	20%	16V
C4201	1-126-961-11	ELECT	2.2MF	20%	50V
C4202	1-126-963-11	ELECT	4.7MF	20%	50V
C4204	1-126-961-11	ELECT	2.2MF	20%	50V
C4206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4231	1-126-961-11	ELECT	2.2MF	20%	50V
C4232	1-126-963-11	ELECT	4.7MF	20%	50V
C4236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4261	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4262	1-104-665-11	ELECT	100MF	20%	25V
C4263	1-104-665-11	ELECT	100MF	20%	25V
C4301	1-126-961-11	ELECT	2.2MF	20%	50V
C4302	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C4303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4304	1-126-961-11	ELECT	2.2MF	20%	50V
C4305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4310	1-126-965-11	ELECT	22MF	20%	50V
C4351	1-126-961-11	ELECT	2.2MF	20%	50V
C4352	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C4353	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4354	1-126-961-11	ELECT	2.2MF	20%	50V
C4355	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4360	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4401	1-126-965-11	ELECT	22MF	20%	50V
C4402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4403	1-126-965-11	ELECT	22MF	20%	50V
C4504	1-126-933-11	ELECT	100MF	20%	16V
C4505	1-104-665-11	ELECT	100MF	20%	25V
C4551	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4552	1-104-665-11	ELECT	100MF	20%	25V
C4553	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C4555	1-126-933-11	ELECT	100MF	20%	16V
C4729	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4730	1-104-665-11	ELECT	100MF	20%	25V
C4731	1-104-665-11	ELECT	100MF	20%	25V
C4732	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4733	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4734	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4735	1-126-964-11	ELECT	10MF	20%	50V
C4736	1-126-960-11	ELECT	1MF	20%	50V
C4737	1-104-665-11	ELECT	100MF	20%	25V
C4739	1-126-960-11	ELECT	1MF	20%	50V
C4740	1-126-960-11	ELECT	1MF	20%	50V
C4741	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4742	1-126-941-11	ELECT	470MF	20%	25V
C4743	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4744	1-137-368-11	FILM	0.0047MF	5%	50V
C4745	1-126-963-11	ELECT	4.7MF	20%	50V
C4746	1-126-964-11	ELECT	10MF	20%	50V
C4747	1-104-664-11	ELECT	47MF	20%	25V
C4748	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4749	1-137-364-11	FILM	0.001MF	5%	50V
C4750	1-126-965-11	ELECT	22MF	20%	50V
C4751	1-126-961-11	ELECT	2.2MF	20%	50V
C4752	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4753	1-137-366-11	FILM	0.0022MF	5%	50V
C4754	1-137-364-11	FILM	0.001MF	5%	50V
C4755	1-136-173-00	FILM	0.47MF	5%	50V
C4756	1-126-964-11	ELECT	10MF	20%	50V
C4757	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4758	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C4759	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C4760	1-126-961-11	ELECT	2.2MF	20%	50V
C4761	1-126-964-11	ELECT	10MF	20%	50V
C4762	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4764	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4765	1-126-963-11	ELECT	4.7MF	20%	50V
C4766	1-126-965-11	ELECT	22MF	20%	50V
C4770	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4771	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C4772	1-126-965-11	ELECT	22MF	20%	50V
C4773	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4774	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4775	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4776	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4801	1-126-960-11	ELECT	1MF	20%	50V
C4851	1-126-960-11	ELECT	1MF	20%	50V
C4901	1-104-665-11	ELECT	100MF	20%	25V
C4902	1-104-665-11	ELECT	100MF	20%	25V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN4001	1-778-393-11	PIN, PC CONNECTOR 96P	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D4001	8-719-988-62	DIODE 1SS355	
D4002	8-719-988-62	DIODE 1SS355	
D4003	8-719-988-62	DIODE 1SS355	
D4010	8-719-158-17	DIODE RD5.6SB2	
D4011	8-719-158-17	DIODE RD5.6SB2	
D4012	8-719-158-17	DIODE RD5.6SB2	
D4013	8-719-158-17	DIODE RD5.6SB2	
D4014	8-719-158-17	DIODE RD5.6SB2	
D4015	8-719-158-17	DIODE RD5.6SB2	
D4016	8-719-158-17	DIODE RD5.6SB2	
D4017	8-719-158-17	DIODE RD5.6SB2	
D4201	8-719-914-43	DIODE DAN202K	
D4203	8-719-914-43	DIODE DAN202K	
D4204	8-719-914-43	DIODE DAN202K	
D4701	8-719-914-43	DIODE DAN202K	
D4702	8-719-914-43	DIODE DAN202K	
D4704	8-719-158-17	DIODE RD5.6SB2	
D4705	8-719-800-76	DIODE 1SS226	
D4706	8-719-914-44	DIODE DAP202K	
D4707	8-719-914-44	DIODE DAP202K	
D4708	8-719-037-20	DIODE RD11SB2-T1	
D4801	8-719-158-37	DIODE RD9.1SB2	
D4851	8-719-158-37	DIODE RD9.1SB2	
D4901	8-719-914-43	DIODE DAN202K	
D4902	8-719-914-43	DIODE DAN202K	

<FILTER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FL4001	1-236-071-11	ENCAPSULATED COMPONENT	
FL4003	1-236-071-11	ENCAPSULATED COMPONENT	
FL4701	1-236-071-11	ENCAPSULATED COMPONENT	
FL4702	1-236-071-11	ENCAPSULATED COMPONENT	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC4001	8-759-286-17	IC PC74HC32D-T	
IC4002	8-759-286-17	IC PC74HC32D-T	
IC4003	8-759-286-17	IC PC74HC32D-T	
IC4004	8-759-285-69	IC PC74HC14D-T	
IC4005	8-759-285-55	IC PC74HC08D-T	
IC4006	8-759-633-10	IC M54544AL	
IC4007	8-759-633-10	IC M54544AL	
IC4008	8-759-633-10	IC M54544AL	
IC4200	8-759-980-43	IC TDA2009A	
IC4300	8-759-273-12	IC TDA7315D013TR	
IC4400	8-759-135-80	IC uPC358C	
IC4401	8-759-135-80	IC uPC358C	
IC4550	8-759-701-59	IC NJM78M09FA	
IC4714	8-759-513-72	IC PQ12RF11	
IC4715	8-759-457-39	IC NJM2162M(TE2)	
IC4716	8-759-100-60	IC uPC1377C	
IC4717	8-759-009-51	IC MC14538BF	
IC4718	8-759-009-51	IC MC14538BF	
IC4719	8-759-457-39	IC NJM2162M(TE2)	
IC4720	8-759-285-55	IC PC74HC08D-T	
IC4721	8-759-286-67	IC PC74HC4538D-T	

<JACK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
J4001	1-565-639-11	JACK, PIN 1P	
J4002	1-565-641-11	JACK, PIN 1P	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L4001	1-412-363-21	INDUCTOR 0UH	
L4002	1-412-363-21	INDUCTOR 0UH	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q4201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q4203	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4204	8-729-202-38	TRANSISTOR 2SC3326N-A	
Q4205	8-729-202-38	TRANSISTOR 2SC3326N-A	
Q4206	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q4207	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4709	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4710	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4711	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q4712	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	

BC

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q4717	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4718	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4719	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q4901	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4902	8-729-202-38	TRANSISTOR 2SC3326N-A	
		<RESISTOR>	
R4001	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4002	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4003	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4004	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4005	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4006	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4007	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4008	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4009	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4010	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4011	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4012	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R4013	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R4014	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R4015	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R4016	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
R4017	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
R4018	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
R4020	1-216-295-11	CONDUCTOR, CHIP	
R4021	1-216-295-11	CONDUCTOR, CHIP	
R4022	1-216-295-11	CONDUCTOR, CHIP	
R4023	1-216-295-11	CONDUCTOR, CHIP	
R4024	1-216-295-11	CONDUCTOR, CHIP	
R4025	1-216-295-11	CONDUCTOR, CHIP	
R4201	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R4202	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4203	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4208	1-249-385-11	CARBON 2.2 5% 1/4W	F
R4210	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4211	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4212	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4213	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4214	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4215	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4216	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4217	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4218	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4219	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4220	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4223	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R4224	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R4225	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R4226	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4227	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4228	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4230	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4231	1-216-015-00	METAL GLAZE 39 5% 1/10W	
R4232	1-216-015-00	METAL GLAZE 39 5% 1/10W	
R4233	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4234	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4238	1-249-385-11	CARBON 2.2 5% 1/4W	F
R4240	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R4241	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R4242	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R4243	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R4244	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R4301	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4303	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R4351	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4353	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4354	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4381	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4382	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4403	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R4404	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R4405	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R4408	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R4409	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4410	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4411	1-216-295-11	CONDUCTOR, CHIP	
R4412	1-216-295-11	CONDUCTOR, CHIP	
R4602	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R4652	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R4702	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4703	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4704	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4705	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4706	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R4707	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4708	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R4709	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4710	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4711	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4712	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4713	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4714	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4715	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R4716	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4717	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R4718	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4719	1-216-697-91	METAL CHIP 82K 0.50% 1/10W	
R4720	1-216-697-91	METAL CHIP 82K 0.50% 1/10W	
R4721	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4722	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4723	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4724	1-216-643-11	METAL CHIP 470 0.50% 1/10W	
R4725	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W	
R4726	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4728	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4729	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R4730	1-216-697-91	METAL CHIP 82K 0.50% 1/10W	
R4731	1-216-697-91	METAL CHIP 82K 0.50% 1/10W	
R4732	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R4733	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R4734	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R4735	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4736	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4737	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R4738	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R4739	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R4744	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R4745	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R4746	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4747	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R4748	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R4749	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4750	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4751	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4754	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4756	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4757	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R4758	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R4759	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
R4760	1-216-295-11	CONDUCTOR, CHIP	
R4761	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4762	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4763	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R4766	1-216-025-91	METAL GLAZE 100 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4769	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4770	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R4771	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4772	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4773	1-216-041-00	METAL GLAZE	470	5%	1/10W
R4774	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R4775	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R4776	1-216-025-91	METAL GLAZE	100	5%	1/10W
R4777	1-216-025-91	METAL GLAZE	100	5%	1/10W
R4901	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R4902	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R4903	1-216-073-00	METAL GLAZE	10K	5%	1/10W

<VARIABLE RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
RV4701	1-241-763-11	RES, ADJ, CERMET	4.7K		
RV4702	1-241-764-11	RES, ADJ, CERMET	10K		

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION			REMARK
S4702	1-570-865-11	SWITCH, SLIDE			

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* A-1135-922-A BB BOARD, COMPLETE
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REF. NO.	PART NO.	DESCRIPTION
*	X-4034-123-1	PANEL (BB) ASSY, REAR
	4-055-965-01	SCREW(S), M3
	4-055-966-01	SPRING (S), COMPRESSION
	7-682-248-09	SCREW +K 3X8
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3001	1-128-401-11	ELECT	100MF	20%	25V
C3002	1-128-401-11	ELECT	100MF	20%	25V
C3003	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3004	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3005	1-128-401-11	ELECT	100MF	20%	25V
C3006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3007	1-128-401-11	ELECT	100MF	20%	25V
C3008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3009	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3010	1-128-401-11	ELECT	100MF	20%	25V
C3011	1-128-401-11	ELECT	100MF	20%	25V
C3012	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3013	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3014	1-128-401-11	ELECT	100MF	20%	25V
C3015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3016	1-126-395-11	ELECT	22MF	20%	16V
C3017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3018	1-126-395-11	ELECT	22MF	20%	16V
C3019	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3020	1-126-395-11	ELECT	22MF	20%	16V
C3021	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3022	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3023	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3025	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3030	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3032	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3035	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3036	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3037	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3038	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3039	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3040	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3041	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3043	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3044	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3045	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3046	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3047	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3050	1-128-401-11	ELECT	100MF	20%	25V
C3051	1-128-401-11	ELECT	100MF	20%	25V
C3052	1-128-401-11	ELECT	100MF	20%	25V
C3053	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3054	1-126-204-11	ELECT	47MF	20%	16V
C3055	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3056	1-126-204-11	ELECT	47MF	20%	16V
C3057	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3058	1-126-204-11	ELECT	47MF	20%	16V
C3059	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3100	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3101	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3103	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3107	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3108	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3109	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3110	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3111	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3112	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3113	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3114	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3115	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3116	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3118	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3119	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3120	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3121	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3122	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3125	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3200	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3201	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3203	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3207	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3208	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3209	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3210	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3211	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3212	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3213	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3214	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3215	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3216	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3217	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3218	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3219	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3220	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3221	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3222	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3223	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3225	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3300	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3301	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3303	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3307	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3309	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3311	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3312	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3313	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3314	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3318	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3319	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3320	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3321	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3322	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3323	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3325	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3400	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3402	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3403	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3404	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3405	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3407	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3408	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3409	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3410	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3411	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3412	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3413	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3414	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3415	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C3416	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3418	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3419	1-128-401-11	ELECT	100MF	20%	25V
C3420	1-128-401-11	ELECT	100MF	20%	25V
C3421	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3422	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3423	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3424	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3425	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3426	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3427	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3428	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3430	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3431	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3433	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3434	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3436	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3437	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3438	1-128-401-11	ELECT	100MF	20%	25V
C3439	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3440	1-163-143-00	CERAMIC CHIP	0.0012MF	5%	50V
C3441	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C3442	1-128-401-11	ELECT	100MF	20%	25V
C3550	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3551	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3552	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3553	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C3554	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3555	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3558	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3559	1-128-401-11	ELECT	100MF	20%	25V
C3600	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3601	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3602	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3603	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3604	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3605	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3655	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3656	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3659	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3660	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3661	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3662	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3663	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3664	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3665	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C3666	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3667	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3668	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3669	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3670	1-104-910-11	TANTAL. CHIP	15MF	20%	10V
C3671	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3672	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3673	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3674	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3675	1-128-401-11	ELECT	100MF	20%	25V
C3676	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3677	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3678	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

<CONNECTOR>

CN3001	1-778-393-11	PIN, PC CONNECTOR 96P
CN3650	* 1-564-507-11	PLUG, CONNECTOR 4P

<DIODE>

D3001	8-719-158-17	DIODE RD5.6SB2
D3002	8-719-158-17	DIODE RD5.6SB2
D3003	8-719-158-17	DIODE RD5.6SB2
D3004	8-719-158-17	DIODE RD5.6SB2
D3005	8-719-158-17	DIODE RD5.6SB2
D3006	8-719-158-17	DIODE RD5.6SB2
D3007	8-719-158-17	DIODE RD5.6SB2
D3008	8-719-158-17	DIODE RD5.6SB2
D3009	8-719-158-17	DIODE RD5.6SB2
D3010	8-719-158-17	DIODE RD5.6SB2
D3014	8-719-158-17	DIODE RD5.6SB2
D3015	8-719-158-17	DIODE RD5.6SB2
D3016	8-719-158-17	DIODE RD5.6SB2
D3017	8-719-158-17	DIODE RD5.6SB2
D3018	8-719-158-17	DIODE RD5.6SB2
D3019	8-719-158-17	DIODE RD5.6SB2
D3020	8-719-158-17	DIODE RD5.6SB2

REF. NO.	PART NO.	DESCRIPTION	REMARK
D3400	8-719-421-40	DIODE MA77	
D3401	8-719-421-40	DIODE MA77	
D3402	8-719-421-40	DIODE MA77	
D3603	8-719-158-17	DIODE RD5.6SB2	
D3606	8-719-158-17	DIODE RD5.6SB2	
D3650	8-719-045-53	DIODE SEC1801C	
D3651	8-719-421-40	DIODE MA77	
		<FERRITE BEAD>	
FB3550	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB3551	1-414-234-11	INDUCTOR, FERRITE BEAD	
		<FILTER>	
FL3001	1-239-400-11	FILTER, CHIP EMI	
FL3002	1-239-400-11	FILTER, CHIP EMI	
FL3003	1-239-400-11	FILTER, CHIP EMI	
FL3004	1-239-400-11	FILTER, CHIP EMI	
FL3005	1-239-400-11	FILTER, CHIP EMI	
FL3006	1-239-400-11	FILTER, CHIP EMI	
FL3007	1-239-400-11	FILTER, CHIP EMI	
FL3008	1-239-400-11	FILTER, CHIP EMI	
FL3009	1-239-400-11	FILTER, CHIP EMI	
FL3010	1-239-400-11	FILTER, CHIP EMI	
FL3011	1-239-466-21	FILTER, EMI	
FL3012	1-239-466-21	FILTER, EMI	
FL3013	1-239-466-21	FILTER, EMI	
FL3014	1-239-466-21	FILTER, EMI	
FL3018	1-239-400-11	FILTER, CHIP EMI	
FL3019	1-239-400-11	FILTER, CHIP EMI	
FL3020	1-239-400-11	FILTER, CHIP EMI	
FL3021	1-239-466-21	FILTER, EMI	
FL3400	1-239-400-11	FILTER, CHIP EMI	
FL3401	1-239-466-21	FILTER, EMI	
FL3402	1-239-400-11	FILTER, CHIP EMI	
FL3403	1-239-400-11	FILTER, CHIP EMI	
FL3404	1-239-400-11	FILTER, CHIP EMI	
FL3405	1-239-400-11	FILTER, CHIP EMI	
FL3406	1-239-400-11	FILTER, CHIP EMI	
FL3550	1-239-400-11	FILTER, CHIP EMI	
FL3600	1-239-400-11	FILTER, CHIP EMI	
FL3601	1-239-400-11	FILTER, CHIP EMI	
FL3602	1-239-400-11	FILTER, CHIP EMI	
FL3603	1-239-400-11	FILTER, CHIP EMI	
FL3604	1-239-400-11	FILTER, CHIP EMI	
FL3605	1-239-400-11	FILTER, CHIP EMI	
FL3606	1-239-400-11	FILTER, CHIP EMI	
		<IC>	
IC3001	8-759-182-84	IC PQ05SZ5U	
IC3004	8-759-182-84	IC PQ05SZ5U	
IC3005	8-752-371-18	IC CXD2302Q-T4	
IC3006	8-752-371-18	IC CXD2302Q-T4	
IC3007	8-752-371-18	IC CXD2302Q-T4	
IC3008	8-759-008-40	IC MC74HC4078F	
IC3009	8-759-008-40	IC MC74HC4078F	
IC3010	8-759-008-40	IC MC74HC4078F	
IC3011	8-759-032-53	IC MC74HC244AF	
IC3100	8-759-175-27	IC TC74VHC574F	
IC3101	8-759-175-27	IC TC74VHC574F	
IC3102	8-759-196-73	IC uPD485505G-25	
IC3103	8-759-196-73	IC uPD485505G-25	
IC3104	8-759-179-94	IC HM530281-20	
IC3105	8-759-179-94	IC HM530281-20	
IC3106	8-759-179-94	IC HM530281-20	
IC3107	8-759-179-94	IC HM530281-20	

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC3108	8-752-375-92	IC CXD303-105Q	
IC3200	8-759-175-27	IC TC74VHC574F	
IC3201	8-759-175-27	IC TC74VHC574F	
IC3202	8-759-196-73	IC uPD485505G-25	
IC3203	8-759-196-73	IC uPD485505G-25	
IC3204	8-759-179-94	IC HM530281-20	
IC3205	8-759-179-94	IC HM530281-20	
IC3206	8-759-179-94	IC HM530281-20	
IC3207	8-759-179-94	IC HM530281-20	
IC3208	8-752-375-92	IC CXD303-105Q	
IC3300	8-759-175-27	IC TC74VHC574F	
IC3301	8-759-175-27	IC TC74VHC574F	
IC3302	8-759-196-73	IC uPD485505G-25	
IC3303	8-759-196-73	IC uPD485505G-25	
IC3304	8-759-179-94	IC HM530281-20	
IC3305	8-759-179-94	IC HM530281-20	
IC3306	8-759-179-94	IC HM530281-20	
IC3307	8-759-179-94	IC HM530281-20	
IC3308	8-752-375-92	IC CXD303-105Q	
IC3400	8-759-081-46	IC TC74VHCU04F	
IC3401	8-759-175-27	IC TC74VHC574F	
IC3402	8-759-186-39	IC TC74VHC74F	
IC3403	8-759-174-16	IC TC74VHC244F	
IC3404	8-759-174-16	IC TC74VHC244F	
IC3405	8-759-186-60	IC TC74VHC240F	
IC3406	8-759-081-42	IC TC74VHC00F	
IC3407	8-759-186-51	IC TC74VHC157F	
IC3408	8-752-377-98	IC CXD305-114Q	
IC3409	8-759-186-60	IC TC74VHC240F	
IC3410	8-759-443-13	IC uPD23C8000XGX-304-E2	
IC3412	8-759-174-16	IC TC74VHC244F	
IC3413	8-759-186-60	IC TC74VHC240F	
IC3414	8-759-174-16	IC TC74VHC244F	
IC3415	8-759-394-03	IC ICS1522MT	
IC3416	8-759-327-93	IC TK16031AMTL	
IC3550	8-759-295-09	IC TLC2932IPW	
IC3551	8-759-081-44	IC TC74VHC04F	
IC3600	8-759-369-85	IC BT121KPJ80	
IC3602	8-759-174-16	IC TC74VHC244F	
IC3651	8-759-080-93	IC M6M80041FP	
IC3655	8-759-162-80	IC MM1170BFB	
IC3658	8-759-285-64	IC PC74HC132D-T	
IC3659	8-759-032-53	IC MC74HC244AF	
IC3660	8-759-370-03	IC HD6433256A11F	
IC3661	8-759-032-53	IC MC74HC244AF	
IC3662	8-759-032-53	IC MC74HC244AF	
IC3663	8-759-032-53	IC MC74HC244AF	
IC3664	8-759-635-27	IC M62352GP-75E	
		<COIL>	
L3001	1-412-533-21	INDUCTOR 47UH	
L3002	1-412-533-21	INDUCTOR 47UH	
L3006	1-412-390-21	INDUCTOR CHIP 0UH	
L3007	1-412-390-21	INDUCTOR CHIP 0UH	
L3008	1-412-390-21	INDUCTOR CHIP 0UH	
L3400	1-412-390-21	INDUCTOR CHIP 0UH	
L3401	1-410-995-31	INDUCTOR CHIP 1.5UH	
L3403	1-412-390-21	INDUCTOR CHIP 0UH	
L3550	1-410-393-11	INDUCTOR CHIP 100UH	
L3650	1-412-390-21	INDUCTOR CHIP 0UH	
L3651	1-412-390-21	INDUCTOR CHIP 0UH	
L3652	1-412-390-21	INDUCTOR CHIP 0UH	
		<TRANSISTOR>	
Q3001	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q3002	8-729-107-31	TRANSISTOR 2SC3545-T43	

BB

REF. NO.	PART NO.	DESCRIPTION		REMARK
Q3003	8-729-107-31	TRANSISTOR 2SC3545-T43		
Q3400	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
Q3401	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
Q3402	8-729-216-22	TRANSISTOR 2SA1162-G		
Q3403	8-729-216-22	TRANSISTOR 2SA1162-G		
Q3404	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
Q3405	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
Q3406	8-729-014-93	TRANSISTOR 2SB1440S-TX		
Q3407	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
Q3650	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		
		<RESISTOR>		
R3001	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3002	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3003	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3004	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3005	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3006	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3007	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3008	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R3009	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3010	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3011	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3012	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3013	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3014	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3015	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3016	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R3017	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3018	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R3019	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3020	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R3021	1-216-037-00	METAL GLAZE 330	5%	1/10W
R3022	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3023	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3024	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3025	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3026	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3027	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3028	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3029	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3030	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3031	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3032	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3033	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3034	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3035	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3036	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3037	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3038	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3039	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3040	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3041	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3042	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3043	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3044	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3045	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3046	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3047	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3048	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3049	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R3050	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3051	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3052	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3053	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3054	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3055	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3056	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3057	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3058	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3059	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3060	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3061	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3062	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R3063	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3064	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3065	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3066	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3067	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3068	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3069	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3070	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3071	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3072	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R3073	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3074	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3075	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3076	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3077	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3078	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R3079	1-216-023-00	METAL GLAZE 82	5%	1/10W
R3080	1-216-023-00	METAL GLAZE 82	5%	1/10W
R3081	1-216-023-00	METAL GLAZE 82	5%	1/10W
R3085	1-216-041-00	METAL GLAZE 470	5%	1/10W
R3400	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3401	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3402	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3403	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3404	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3405	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3406	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3407	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3408	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3409	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3410	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3411	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3412	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3414	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3415	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3416	1-216-121-91	METAL GLAZE 1M	5%	1/10W
R3417	1-216-295-11	CONDUCTOR, CHIP		
R3418	1-216-009-00	METAL GLAZE 22	5%	1/10W
R3419	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3420	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3421	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3422	1-216-001-00	METAL GLAZE 10	5%	1/10W
R3423	1-216-041-00	METAL GLAZE 470	5%	1/10W
R3424	1-216-041-00	METAL GLAZE 470	5%	1/10W
R3425	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3426	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3427	1-216-001-00	METAL GLAZE 10	5%	1/10W
R3428	1-216-041-00	METAL GLAZE 470	5%	1/10W
R3429	1-216-041-00	METAL GLAZE 470	5%	1/10W
R3430	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3431	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3432	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3433	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3434	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3435	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3436	1-216-025-91	METAL GLAZE 100	5%	1/10W
R3437	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3438	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3439	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3440	1-216-017-91	METAL GLAZE 47	5%	1/10W
R3441	1-216-017-91	METAL GLAZE 47	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3442	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3443	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3444	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3445	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3446	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3448	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3449	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3450	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3451	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3452	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3453	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3454	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3455	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3456	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3457	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3458	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3459	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3460	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3461	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3462	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3463	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3464	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3465	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3466	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3467	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3468	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3469	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3471	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3472	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3473	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3474	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3475	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3476	1-216-001-00	METAL GLAZE	10	5%	1/10W
R3477	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3478	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3479	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3480	1-216-047-91	METAL GLAZE	820	5%	1/10W
R3481	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R3482	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R3484	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3485	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3486	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R3494	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R3495	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3496	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3497	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3498	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3499	1-216-295-11	CONDUCTOR, CHIP			
R3500	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R3504	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3505	1-216-009-00	METAL GLAZE	22	5%	1/10W
R3506	1-216-009-00	METAL GLAZE	22	5%	1/10W
R3507	1-216-009-00	METAL GLAZE	22	5%	1/10W
R3508	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3509	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3510	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3511	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3512	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3513	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3514	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3515	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3516	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R3517	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3518	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3519	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3520	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3550	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R3551	1-216-047-91	METAL GLAZE	820	5%	1/10W
R3552	1-216-041-00	METAL GLAZE	470	5%	1/10W
R3553	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3554	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3555	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3556	1-216-295-11	CONDUCTOR, CHIP			
R3558	1-216-009-00	METAL GLAZE	22	5%	1/10W
R3600	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3601	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3602	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3603	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3604	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3605	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3606	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3607	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3608	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3609	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3610	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3611	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3612	1-216-607-11	METAL CHIP	15	0.50%	1/10W
R3613	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3614	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3615	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3616	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3617	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3618	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3619	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3620	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3621	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3622	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3623	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3624	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3625	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3626	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3627	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3628	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3629	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3630	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3631	1-216-009-00	METAL GLAZE	22	5%	1/10W
R3632	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3650	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3651	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3653	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3654	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3655	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3656	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3657	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3658	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3659	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3660	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3661	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3662	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3663	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3664	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3665	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R3666	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3667	1-216-041-00	METAL GLAZE	470	5%	1/10W
R3668	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3669	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3670	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3671	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3672	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3673	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3674	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3675	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3677	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3678	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R3679	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3698	1-216-073-00	METAL GLAZE	10K	5%	1/10W

<VARIABLE RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
RV3600	1-223-378-11	RES, ADJ, CERMET 100			

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION			REMARK
S3650	1-570-865-11	SWITCH, SLIDE			

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION			REMARK
X3400	1-767-698-21	VIBRATOR, CRYSTAL			
X3650	1-760-040-11	VIBRATOR, CRYSTAL			

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REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1135-923-A	BA BOARD, COMPLETE (VPL-S800U) ********************** (INCLUDING BAA BOARD)	
	* A-1135-925-A	BA BOARD, COMPLETE (VPL-S800M) ********************** (INCLUDING BAA BOARD)	
	* X-4034-122-1	PANEL (BA) ASSY, REAR	
	1-562-579-21	RECEPTACLE, CONNECTOR 2P	
	4-055-965-01	SCREW(S), M3	
	4-055-966-01	SPRING (S), COMPRESSION	
	7-682-248-09	SCREW +K 3X8	
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1001	1-126-960-11	ELECT	1MF	20%	50V
C1002	1-126-960-11	ELECT	1MF	20%	50V
C1003	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1004	1-126-960-11	ELECT	1MF	20%	50V
C1005	1-126-960-11	ELECT	1MF	20%	50V
C1006	1-126-964-11	ELECT	10MF	20%	50V
C1007	1-126-964-11	ELECT	10MF	20%	50V
C1008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1009	1-126-967-11	ELECT	47MF	20%	16V
C1010	1-126-964-11	ELECT	10MF	20%	50V
C1011	1-126-963-11	ELECT	4.7MF	20%	50V
C1012	1-126-967-11	ELECT	47MF	20%	16V
C1013	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1014	1-126-963-11	ELECT	4.7MF	20%	50V
C1015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1016	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1017	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1018	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1019	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1020	1-126-967-11	ELECT	47MF	20%	16V
C1021	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1022	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1023	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1024	1-126-963-11	ELECT	4.7MF	20%	50V
C1025	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1028	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1029	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C1030	1-164-346-11	CERAMIC CHIP	1MF		16V
C1031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1033	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1034	1-126-963-11	ELECT	4.7MF	20%	50V
C1035	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1036	1-126-935-11	ELECT	470MF	20%	16V
C1039	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1040	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1043	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C1045	1-126-959-11	ELECT	0.47MF	20%	50V
C1047	1-126-967-11	ELECT	47MF	20%	16V
C1048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1051	1-126-967-11	ELECT	47MF	20%	16V
C1052	1-126-964-11	ELECT	10MF	20%	50V
C1053	1-126-964-11	ELECT	10MF	20%	50V
C1054	1-126-964-11	ELECT	10MF	20%	50V
C1055	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1056	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1057	1-126-964-11	ELECT	10MF	20%	50V
C1058	1-126-967-11	ELECT	47MF	20%	16V
C1059	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1060	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1061	1-126-964-11	ELECT	10MF	20%	50V
C1062	1-126-967-11	ELECT	47MF	20%	16V
C1063	1-126-967-11	ELECT	47MF	20%	16V
C1064	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1065	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1066	1-126-934-11	ELECT	220MF	20%	16V
C1067	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1068	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1069	1-126-933-11	ELECT	100MF	20%	16V
C1070	1-126-967-11	ELECT	47MF	20%	16V
C1071	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1072	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1073	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1074	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1075	1-126-964-11	ELECT	10MF	20%	50V
C1076	1-126-960-11	ELECT	1MF	20%	50V
C1077	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1078	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1079	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1080	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1081	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1082	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1083	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1084	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1085	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1086	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1087	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1088	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1089	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1090	1-127-532-11	ELECT(SOLID)	47MF	20%	6.3V
C1091	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1092	1-126-963-11	ELECT	4.7MF	20%	50V
C1095	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1096	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1100	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1101	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1102	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C1104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1106	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1107	1-126-967-11	ELECT	47MF	20%	16V
C1109	1-126-964-11	ELECT	10MF	20%	50V
C1110	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1111	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1112	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1113	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1115	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1116	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1119	1-126-933-11	ELECT	100MF	20%	16V
C1120	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1122	1-126-964-11	ELECT	10MF	20%	50V
C1123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1124	1-163-239-11	CERAMIC CHIP	33PF	5%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1126	1-126-964-11	ELECT	10MF	20%	50V
C1127	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1130	1-126-967-11	ELECT	47MF	20%	16V
C1131	1-126-964-11	ELECT	10MF	20%	50V
C1132	1-126-960-11	ELECT	1MF	20%	50V
C1133	1-126-964-11	ELECT	10MF	20%	50V
C1134	1-126-960-11	ELECT	1MF	20%	50V
C1135	1-126-964-11	ELECT	10MF	20%	50V
C1209	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1212	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1213	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1214	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1215	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1216	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1217	1-164-346-11	CERAMIC CHIP	1MF		16V
C1218	1-164-346-11	CERAMIC CHIP	1MF		16V
C1219	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1220	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1301	1-126-967-11	ELECT	47MF	20%	16V
C1302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1303	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1304	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1307	1-126-965-11	ELECT	22MF	20%	50V
C1308	1-126-965-11	ELECT	22MF	20%	50V
C1309	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1310	1-107-701-11	ELECT	47MF	20%	16V
C1311	1-107-701-11	ELECT	47MF	20%	16V
C1312	1-107-701-11	ELECT	47MF	20%	16V
C1313	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1314	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1315	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1316	1-107-701-11	ELECT	47MF	20%	16V
C1317	1-107-701-11	ELECT	47MF	20%	16V
C1318	1-107-701-11	ELECT	47MF	20%	16V
C1319	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1320	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1321	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1322	1-126-964-11	ELECT	10MF	20%	50V
C1323	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1324	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1325	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1327	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1328	1-126-933-11	ELECT	100MF	20%	16V
C1329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1332	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1333	1-126-964-11	ELECT	10MF	20%	50V
C1334	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1336	1-126-964-11	ELECT	10MF	20%	50V
C1337	1-126-964-11	ELECT	10MF	20%	50V
C1338	1-126-967-11	ELECT	47MF	20%	16V
C1339	1-126-964-11	ELECT	10MF	20%	50V
C1340	1-126-964-11	ELECT	10MF	20%	50V
C1341	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1342	1-126-960-11	ELECT	1MF	20%	50V
C1343	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1344	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1345	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1346	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1347	1-126-960-11	ELECT	1MF	20%	50V
C1348	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1349	1-126-235-11	ELECT	100MF	20%	6.3V
C1350	1-126-235-11	ELECT	100MF	20%	6.3V
C1351	1-126-235-11	ELECT	100MF	20%	6.3V
C1352	1-107-701-11	ELECT	47MF	20%	16V
C1353	1-107-701-11	ELECT	47MF	20%	16V
C1354	1-107-701-11	ELECT	47MF	20%	16V
C1356	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1357	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1358	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1359	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1360	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1361	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1362	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1363	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1364	1-126-964-11	ELECT	10MF	20%	50V
C1365	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1366	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1368	1-126-964-11	ELECT	10MF	20%	50V
C1369	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1370	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1371	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1372	1-126-933-11	ELECT	100MF	20%	16V
C1373	1-126-933-11	ELECT	100MF	20%	16V
C1374	1-126-933-11	ELECT	100MF	20%	16V
C1375	1-126-964-11	ELECT	10MF	20%	50V
C1376	1-126-933-11	ELECT	100MF	20%	16V
C1377	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1378	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1379	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1380	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1381	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1382	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1383	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1384	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1385	1-126-964-11	ELECT	10MF	20%	50V
C1386	1-126-964-11	ELECT	10MF	20%	50V
C1387	1-126-964-11	ELECT	10MF	20%	50V
C1388	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1389	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1390	1-126-964-11	ELECT	10MF	20%	50V
C1391	1-126-964-11	ELECT	10MF	20%	50V
C1392	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1393	1-126-964-11	ELECT	10MF	20%	50V
C1394	1-126-963-11	ELECT	4.7MF	20%	50V
C1395	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1396	1-126-933-11	ELECT	100MF	20%	16V
C1397	1-126-933-11	ELECT	100MF	20%	16V
C1398	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1399	1-126-933-11	ELECT	100MF	20%	16V
C1400	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1402	1-126-933-11	ELECT	100MF	20%	16V
C1403	1-126-933-11	ELECT	100MF	20%	16V
C1404	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1405	1-126-933-11	ELECT	100MF	20%	16V
C1406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1407	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1408	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1409	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1410	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1411	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1412	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1413	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1414	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1415	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1416	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1417	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1418	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1419	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1420	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1424	1-126-964-11	ELECT	10MF	20%	50V
C1425	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1426	1-164-346-11	CERAMIC CHIP	1MF		16V
C1427	1-164-346-11	CERAMIC CHIP	1MF		16V
C1428	1-163-239-11	CERAMIC CHIP	33PF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C1429	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1433	1-126-767-11	ELECT	1000MF	20%	16V
C1434	1-126-767-11	ELECT	1000MF	20%	16V
C1435	1-126-767-11	ELECT	1000MF	20%	16V
C1436	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1437	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1438	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1439	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C1551	1-126-933-11	ELECT	100MF	20%	16V
C1552	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1553	1-126-933-11	ELECT	100MF	20%	16V
C1554	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1555	1-126-933-11	ELECT	100MF	20%	16V
C1556	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1557	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1558	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1559	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1560	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1561	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1562	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1563	1-126-964-11	ELECT	10MF	20%	50V
C1564	1-126-964-11	ELECT	10MF	20%	50V
C1565	1-126-964-11	ELECT	10MF	20%	50V
C1566	1-126-964-11	ELECT	10MF	20%	50V
C1567	1-126-964-11	ELECT	10MF	20%	50V
C1568	1-126-964-11	ELECT	10MF	20%	50V
C1569	1-126-964-11	ELECT	10MF	20%	50V
C1570	1-126-964-11	ELECT	10MF	20%	50V
C1571	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1572	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1573	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1577	1-126-964-11	ELECT	10MF	20%	50V
C1578	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1579	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1580	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1701	1-126-967-11	ELECT	47MF	20%	16V
C1702	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1703	1-126-967-11	ELECT	47MF	20%	16V
C1704	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1705	1-126-967-11	ELECT	47MF	20%	16V
C1706	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1707	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1708	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1709	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1710	1-126-964-11	ELECT	10MF	20%	50V
C1711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1712	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1713	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1714	1-126-933-11	ELECT	100MF	20%	16V
C1715	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1716	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1717	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1718	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1719	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1720	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1721	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1722	1-126-933-11	ELECT	100MF	20%	16V
C1723	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1724	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1725	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1726	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1727	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1728	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1729	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1730	1-126-933-11	ELECT	100MF	20%	16V
C1731	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1732	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1733	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1734	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1735	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1736	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1737	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1738	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1739	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1740	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1741	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1742	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1743	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1744	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1745	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1746	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1747	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1748	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1749	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1750	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1751	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1901	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1902	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1903	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1904	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1905	1-126-935-11	ELECT	470MF	20%	16V
C1906	1-126-935-11	ELECT	470MF	20%	16V
C1907	1-126-935-11	ELECT	470MF	20%	16V
C1908	1-126-935-11	ELECT	470MF	20%	16V
C1909	1-126-935-11	ELECT	470MF	20%	16V
C1910	1-126-935-11	ELECT	470MF	20%	16V
		<CONNECTOR>			
CN1201	* 1-774-247-11	CONNECTOR, BOARD TO BOARD 5P			
CN1301	1-778-393-11	PIN, PC CONNECTOR 96P			
		<DIODE>			
D1001	8-719-158-37	DIODE RD9.1SB2			
D1002	8-719-158-37	DIODE RD9.1SB2			
D1003	8-719-158-37	DIODE RD9.1SB2			
D1004	8-719-158-37	DIODE RD9.1SB2			
D1005	8-719-158-37	DIODE RD9.1SB2			
D1006	8-719-158-37	DIODE RD9.1SB2			
D1008	8-719-158-37	DIODE RD9.1SB2			
D1009	8-719-914-43	DIODE DAN202K			
D1010	8-719-158-37	DIODE RD9.1SB2			
D1011	8-719-914-43	DIODE DAN202K			
D1012	8-719-914-43	DIODE DAN202K			
D1014	8-719-914-43	DIODE DAN202K			
D1017	8-719-158-37	DIODE RD9.1SB2			
D1301	8-719-800-76	DIODE 1SS226			
D1302	8-719-800-76	DIODE 1SS226			
D1303	8-719-800-76	DIODE 1SS226			
D1304	8-719-800-76	DIODE 1SS226			
D1305	8-719-800-76	DIODE 1SS226			
D1306	8-719-800-76	DIODE 1SS226			
D1307	8-719-800-76	DIODE 1SS226			
D1308	8-719-800-76	DIODE 1SS226			
D1309	8-719-800-76	DIODE 1SS226			
D1310	8-719-800-76	DIODE 1SS226			
D1312	8-719-800-76	DIODE 1SS226			
D1313	8-719-800-76	DIODE 1SS226			
D1314	8-719-800-76	DIODE 1SS226			
D1315	8-719-914-43	DIODE DAN202K			
D1316	8-719-914-43	DIODE DAN202K			
D1551	8-719-800-76	DIODE 1SS226			
D1552	8-719-800-76	DIODE 1SS226			
D1553	8-719-800-76	DIODE 1SS226			
D1554	8-719-158-17	DIODE RD5.6SB2			
D1555	8-719-158-17	DIODE RD5.6SB2			

REF. NO.	PART NO.	DESCRIPTION	REMARK
D1556	8-719-158-17	DIODE RD5.6SB2	
D1557	8-719-158-17	DIODE RD5.6SB2	
D1701	8-719-800-76	DIODE 1SS226	
D1702	8-719-800-76	DIODE 1SS226	
D1703	8-719-800-76	DIODE 1SS226	
D1704	8-719-421-40	DIODE MA77	
D1705	8-719-421-40	DIODE MA77	
D1706	8-719-421-40	DIODE MA77	
D1707	8-719-421-40	DIODE MA77	
D1708	8-719-421-40	DIODE MA77	
D1709	8-719-421-40	DIODE MA77	
D1710	8-719-800-76	DIODE 1SS226	
D1711	8-719-800-76	DIODE 1SS226	
D1712	8-719-800-76	DIODE 1SS226	
D1713	8-719-800-76	DIODE 1SS226	
D1714	8-719-800-76	DIODE 1SS226	
D1715	8-719-800-76	DIODE 1SS226	
D1716	8-719-421-40	DIODE MA77	
D1717	8-719-421-40	DIODE MA77	
D1718	8-719-421-40	DIODE MA77	
D1719	8-719-421-40	DIODE MA77	
D1720	8-719-421-40	DIODE MA77	
D1721	8-719-421-40	DIODE MA77	
D1722	8-719-800-76	DIODE 1SS226	
D1723	8-719-800-76	DIODE 1SS226	
D1724	8-719-800-76	DIODE 1SS226	
D1725	8-719-800-76	DIODE 1SS226	
D1726	8-719-800-76	DIODE 1SS226	
D1727	8-719-800-76	DIODE 1SS226	
D1728	8-719-421-40	DIODE MA77	
D1729	8-719-421-40	DIODE MA77	
D1730	8-719-421-40	DIODE MA77	
D1731	8-719-421-40	DIODE MA77	
D1732	8-719-421-40	DIODE MA77	
D1733	8-719-421-40	DIODE MA77	
D1734	8-719-800-76	DIODE 1SS226	
D1735	8-719-800-76	DIODE 1SS226	
D1736	8-719-800-76	DIODE 1SS226	
D1737	8-719-800-76	DIODE 1SS226	
D1738	8-719-800-76	DIODE 1SS226	
D1739	8-719-800-76	DIODE 1SS226	

<FILTER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FL1001	1-239-397-11	FILTER, LOW PASS	
FL1002	1-239-397-11	FILTER, LOW PASS	
FL1003	1-239-397-11	FILTER, LOW PASS	
FL1702	1-233-581-11	FILTER, LOW PASS	
FL1703	1-233-582-11	FILTER, LOW PASS	
FL1704	1-233-583-11	FILTER, LOW PASS	
FL1705	1-233-584-11	FILTER, LOW PASS	
FL1706	1-233-585-11	FILTER, LOW PASS	
FL1708	1-233-581-11	FILTER, LOW PASS	
FL1709	1-233-582-11	FILTER, LOW PASS	
FL1710	1-233-583-11	FILTER, LOW PASS	
FL1711	1-233-584-11	FILTER, LOW PASS	
FL1712	1-233-585-11	FILTER, LOW PASS	
FL1714	1-233-581-11	FILTER, LOW PASS	
FL1715	1-233-582-11	FILTER, LOW PASS	
FL1716	1-233-583-11	FILTER, LOW PASS	
FL1717	1-233-584-11	FILTER, LOW PASS	
FL1718	1-233-585-11	FILTER, LOW PASS	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1001	8-752-072-81	IC CXA1875AM	
IC1002	8-759-335-57	IC MM1112XF	
IC1003	8-759-295-47	IC TDA9141-N2C	
IC1004	8-759-288-85	IC TDA4665T-T	
IC1005	8-752-068-45	IC CXA1855Q	
IC1006	8-759-335-57	IC MM1112XF	
IC1007	8-759-710-29	IC NJM2235M	
IC1008	8-752-070-54	IC CXA1839Q-T6	
IC1009	8-752-372-78	IC CXD2024AQ	
IC1010	8-759-711-62	IC NJM2240M	
IC1301	8-759-300-71	IC HD14053BFP	
IC1302	8-759-360-07	IC BA7657F-E2	
IC1303	8-759-008-45	IC MC74HC4538F	
IC1304	8-759-285-51	IC PC74HC00D-T	
IC1305	8-759-510-71	IC BA10358F-E2	
IC1306	8-759-100-93	IC uPC393G2	
IC1307	8-759-353-44	IC ST24C08FM6TR	
IC1308	8-759-175-04	IC PCF8574T-T	
IC1309	8-759-360-07	IC BA7657F-E2	
IC1310	8-759-175-04	IC PCF8574T-T	
IC1311	8-759-984-59	IC MB654842UPF	
IC1312	8-759-510-98	IC BU4551BF	
IC1313	8-759-335-28	IC TA78M09F(TE16L)	
IC1314	8-759-430-82	IC PQ12SZ1U	
IC1315	8-759-182-84	IC PQ05SZ5U	
IC1316	8-759-092-82	IC SN75157PS-ELL2000	
IC1317	8-759-058-62	IC TC7S08FU(TE85R)	
IC1318	8-759-058-62	IC TC7S08FU(TE85R)	
IC1320	8-759-058-62	IC TC7S08FU(TE85R)	
IC1701	8-759-011-63	IC MC74HC4051F	
IC1702	8-752-070-09	IC CXA1779P	
IC1901	8-752-072-81	IC CXA1875AM	

<JACK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
J1001	* 1-694-173-21	TERMINAL BOARD ASSY, I/O	
J1002	1-566-849-11	CONNECTOR, (S) TERMINAL 4P	
J1003	1-565-639-11	JACK, PIN 1P	
J1004	1-565-641-11	JACK, PIN 1P	
J1005	1-565-639-11	JACK, PIN 1P	
J1006	1-565-641-11	JACK, PIN 1P	
J1201	* 1-694-173-11	TERMINAL BOARD ASSY, I/O	
J1202	1-778-695-11	CONNECTOR, S TERMINAL 4P	
J1301	* 1-694-163-11	TERMINAL BOARD ASSY, I/O	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L1001	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1002	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1003	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1004	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1005	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1006	1-410-482-31	INDUCTOR 100UH	
L1008	1-410-482-31	INDUCTOR 100UH	
L1009	1-410-482-31	INDUCTOR 100UH	
L1010	1-410-482-31	INDUCTOR 100UH	
L1011	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1013	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1014	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1015	1-414-235-11	INDUCTOR, FERRITE BEAD	
L1017	1-410-470-11	INDUCTOR 10UH	
L1201	1-408-417-00	INDUCTOR 47UH	
L1301	1-410-470-11	INDUCTOR 10UH	
L1302	1-410-470-11	INDUCTOR 10UH	
L1303	1-410-470-11	INDUCTOR 10UH	
L1304	1-410-470-11	INDUCTOR 10UH	
L1551	1-410-470-11	INDUCTOR 10UH	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1002	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1003	1-801-806-11	TRANSISTOR DTC144EKA-T146	

BA

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1005	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1008	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1009	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1010	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1011	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1012	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1014	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1015	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1016	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1017	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1018	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1019	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1020	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1022	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1023	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1024	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1026	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1028	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1029	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1031	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1032	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1033	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1034	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1035	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1036	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1037	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1038	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1204	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1205	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1305	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1309	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1310	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1311	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1313	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1314	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1315	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1316	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1317	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1319	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1320	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1321	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1322	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1324	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1326	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1327	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1330	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1331	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1333	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1334	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1335	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1336	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1337	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1338	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1339	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1340	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1341	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1342	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1343	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1344	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1345	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1346	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1347	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1348	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1349	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1350	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1351	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1352	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1353	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1354	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1355	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1357	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1358	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1359	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1360	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1361	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1362	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1363	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1364	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1365	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1366	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1367	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1368	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1369	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1551	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1552	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1553	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1554	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1555	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1556	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1557	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1558	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1559	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1560	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1561	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1562	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1563	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1564	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1565	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1566	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1567	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1568	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1569	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1570	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1571	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1572	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1575	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1701	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1702	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1703	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1704	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1705	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1706	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1707	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1708	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1709	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1710	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1711	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1712	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1713	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1714	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1715	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1716	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1717	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1718	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1719	8-729-112-65	TRANSISTOR 2SA1462-Y33	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1720	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1721	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1722	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1723	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1724	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1725	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1726	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1727	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1728	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1729	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1730	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1731	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1732	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1733	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1734	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1735	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1736	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1737	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1738	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1739	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1740	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1741	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1742	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1743	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1744	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1745	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1746	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1747	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1748	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1749	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1750	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1751	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1752	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1753	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1754	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1755	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1756	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1757	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1758	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1759	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1760	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1761	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1762	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1763	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1764	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1765	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1766	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1767	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1768	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1769	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1770	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1771	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1772	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1773	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1774	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1775	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1776	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1777	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1778	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1779	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1780	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1781	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1782	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1783	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1784	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1785	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1786	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1787	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1788	8-729-027-46	TRANSISTOR DTC114YKA-T146	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1789	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1790	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1791	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1792	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1793	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1794	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1795	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1796	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1797	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1798	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1799	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1800	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1801	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1802	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1803	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1804	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1805	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1806	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1807	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1808	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q1809	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1810	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1811	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1812	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1813	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1814	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1815	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1816	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1817	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1818	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1819	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1820	8-729-107-31	TRANSISTOR 2SC3545-T43	
		<RESISTOR>	
R1001	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1002	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1003	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1004	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1005	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1006	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1007	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1008	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1009	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1010	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1011	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R1012	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1013	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1014	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1015	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1016	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R1017	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1018	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1019	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1020	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1022	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1023	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1024	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1025	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1026	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1027	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1028	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1029	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1030	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1031	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1032	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1033	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1035	1-216-073-00	METAL GLAZE 10K 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1037	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1038	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1039	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1040	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1042	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1044	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1045	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1046	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1047	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1048	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1049	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1050	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1051	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1052	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1054	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1056	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1057	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1059	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1060	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1061	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1062	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1063	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1064	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1065	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1066	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1067	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1068	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1069	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1070	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1071	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1072	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1073	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1074	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1075	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1076	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1077	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1078	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1079	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1080	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1081	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1082	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1083	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1084	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1085	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1086	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1087	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1088	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1089	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1090	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1091	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1092	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1093	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1095	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1096	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1097	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1098	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1099	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1100	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1101	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1102	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1103	1-216-295-11	CONDUCTOR, CHIP			
R1104	1-216-295-11	CONDUCTOR, CHIP			
R1105	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1106	1-216-295-11	CONDUCTOR, CHIP			
R1107	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1108	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1109	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1110	1-216-025-91	METAL GLAZE	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1111	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1112	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1113	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1114	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1115	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1116	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1117	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1118	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1119	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1120	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1121	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1122	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1123	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1124	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1126	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1131	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1134	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1135	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1139	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1140	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1141	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1144	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1146	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R1147	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1152	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1155	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1158	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1159	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1160	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1162	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1163	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1165	1-216-295-11	CONDUCTOR, CHIP			
R1167	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1168	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1169	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1170	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1171	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1175	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1176	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1177	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1180	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1181	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1182	1-216-295-11	CONDUCTOR, CHIP			
R1183	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1185	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1186	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1187	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1188	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1189	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1190	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1191	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1192	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1201	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1202	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1203	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1213	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1214	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1215	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1216	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1217	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1218	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1219	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1221	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1222	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1223	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1224	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1225	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1226	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1227	1-216-089-91	METAL GLAZE	47K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1302	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1303	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1304	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1305	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1306	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1307	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1308	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1309	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1310	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1315	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1316	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1317	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1318	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1321	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1322	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1325	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1326	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1327	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1328	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1330	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1331	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1332	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1333	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1334	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1335	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1336	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1337	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1338	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1339	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1340	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1341	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1342	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1343	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1344	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1345	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1346	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1347	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1348	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1349	1-216-295-11	CONDUCTOR, CHIP			
R1350	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1352	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1359	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1360	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1361	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1362	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1363	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1364	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1365	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1366	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1367	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1368	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1369	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1371	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1372	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1373	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1374	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1375	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1376	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1377	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1378	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1379	1-216-295-11	CONDUCTOR, CHIP			
R1380	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1381	1-216-295-11	CONDUCTOR, CHIP			
R1382	1-216-295-11	CONDUCTOR, CHIP			
R1383	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1384	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1385	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1386	1-216-077-00	METAL GLAZE	15K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1389	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1394	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1396	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1397	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1398	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1399	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1400	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1402	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1404	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1405	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1406	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1407	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1408	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1409	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1411	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1412	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1413	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1414	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1415	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1416	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1417	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1419	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1420	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1421	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1422	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1425	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R1426	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1427	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1428	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1429	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1430	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1431	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1432	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1447	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1448	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1449	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1450	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1451	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1452	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1453	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1454	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1455	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1456	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1457	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1458	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1459	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1460	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1461	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1462	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1463	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1464	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1465	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1466	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1467	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1468	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1469	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1470	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1471	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1472	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1473	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1474	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1475	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1476	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1477	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1478	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1479	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1480	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1481	1-216-077-00	METAL GLAZE	15K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1482	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1483	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1484	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1485	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1486	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1487	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1488	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1489	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1490	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1491	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1492	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1493	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1494	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1495	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1496	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1497	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1498	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1499	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1500	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1502	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1503	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1504	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1505	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1506	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1507	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1508	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1509	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1510	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1511	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1512	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R1517	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1518	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1519	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1520	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1521	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1522	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1523	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1524	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1525	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1526	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1527	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1528	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R1529	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1530	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1531	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1532	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1533	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1534	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1535	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1536	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1537	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1538	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1539	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1540	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1541	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1542	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1543	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1544	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1545	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R1546	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1547	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1548	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1549	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1550	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1551	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1552	1-216-009-00	METAL GLAZE	22	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1553	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1554	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1555	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1556	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1557	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1558	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1559	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1560	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1561	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1562	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1563	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1564	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1565	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1566	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1570	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1571	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1572	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1573	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1574	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1575	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1576	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1577	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1578	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1579	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1580	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1581	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1582	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1583	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1584	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1585	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1586	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1587	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1588	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1589	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1590	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1591	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1592	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1593	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1594	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1595	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1596	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1597	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1598	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1599	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1600	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1601	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1602	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1603	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1604	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1605	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1606	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1607	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1608	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1609	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1610	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1611	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1612	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1613	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1614	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1615	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1616	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1617	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1618	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1619	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1622	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1623	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1628	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1629	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1630	1-216-631-11	METAL CHIP	150	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1631	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1632	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1636	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1637	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1638	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1639	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1642	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1643	1-216-295-11	CONDUCTOR, CHIP			
R1645	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1646	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1647	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1648	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1649	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1650	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1651	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1652	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1653	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1654	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1655	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1656	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1657	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1704	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R1705	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1706	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R1707	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1708	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R1709	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1710	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1711	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1712	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1719	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1720	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1721	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1722	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1723	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1724	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1725	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1726	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1727	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1728	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1729	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1730	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1732	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1733	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1734	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1735	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1736	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1737	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1738	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1739	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1740	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1741	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1742	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1743	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1744	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1745	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1746	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1747	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1748	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1749	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1750	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1751	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1752	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1753	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1754	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1755	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1756	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1757	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1758	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1759	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1760	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1761	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1762	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1763	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1764	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1765	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1766	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1767	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1768	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1769	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1770	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1771	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1772	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1773	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1774	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1775	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1776	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1777	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1778	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1779	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1780	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1781	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1782	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1783	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1784	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1785	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1787	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1788	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1789	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1790	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1791	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1792	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1793	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1794	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1795	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1796	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1797	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1798	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1799	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1800	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1801	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1802	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1803	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1804	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1805	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1806	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1807	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1808	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1809	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1810	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1811	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1812	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1813	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1814	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1815	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1816	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1817	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1818	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1819	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1820	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1821	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1822	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1823	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1824	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1825	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1826	1-216-073-00	METAL GLAZE	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1827	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1828	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1829	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1830	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1831	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1832	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1833	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1834	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1836	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1837	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1838	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1839	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1840	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1841	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1842	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1843	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1844	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1845	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1846	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1847	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1848	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1849	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1850	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1851	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1852	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1853	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1854	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1855	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1856	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1857	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1858	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1859	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1860	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1861	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1862	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1863	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1864	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1865	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1866	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1867	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1868	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1869	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1870	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1871	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1872	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1873	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1874	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1875	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1876	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1877	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1878	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1879	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1880	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1881	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1882	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1883	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1884	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1885	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1901	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1902	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1906	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1907	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1908	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1909	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1910	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1911	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1912	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1913	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1914	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1915	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1916	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1917	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1918	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1919	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1920	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1921	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1922	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1923	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1924	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1925	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1926	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1927	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1928	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1929	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1930	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1931	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1932	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1933	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1934	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1935	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1936	1-216-037-00	METAL GLAZE	330	5%	1/10W

<RESISTOR BLOCK>

RB1201	1-236-400-11	NETWORK, RES 100
RB1202	1-236-400-11	NETWORK, RES 100
RB1203	1-236-400-11	NETWORK, RES 100
RB1551	1-233-576-11	RES, CHIP NETWORK 100
RB1552	1-233-576-11	RES, CHIP NETWORK 100
RB1553	1-236-400-11	NETWORK, RES 100
RB1555	1-236-400-11	NETWORK, RES 100
RB1901	1-233-576-11	RES, CHIP NETWORK 100
RB1902	1-236-908-11	RES, CHIP NETWORK 10K
RB1905	1-236-400-11	NETWORK, RES 100
RB1906	1-236-400-11	NETWORK, RES 100

<SWITCH>

S1551	* 1-564-948-21	PIN, CONNECTOR 3P
S1552	* 1-564-948-21	PIN, CONNECTOR 3P
S1553	* 1-564-948-21	PIN, CONNECTOR 3P
S1554	* 1-564-948-21	PIN, CONNECTOR 3P
S1555	* 1-564-948-21	PIN, CONNECTOR 3P
S1556	* 1-564-948-21	PIN, CONNECTOR 3P

<CRYSTAL>

X1001	1-579-973-11	VIBRATOR, CRYSTAL
X1002	1-760-190-11	OSCILLATOR, CRYSTAL (3.58MHz)
X1003	1-760-191-11	OSCILLATOR, CRYSTAL (4.43MHz)
X1301	1-578-687-11	VIBRATOR, CRYSTAL

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BAA BOARD
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<CAPACITOR>

C1951	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1952	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1953	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1954	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1955	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1956	1-126-935-11	ELECT	470MF	20%	16V
C1957	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1958	1-126-960-11	ELECT	1MF	20%	50V
C1959	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1960	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C1961	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1962	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1963	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1964	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1965	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C1966	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C1967	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1969	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1970	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1971	1-163-143-00	CERAMIC CHIP	0.0012MF	5%	50V
C1972	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C1973	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C1974	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1975	1-126-961-11	ELECT	2.2MF	20%	50V
C1976	1-126-965-11	ELECT	22MF	20%	50V
C1977	1-126-963-11	ELECT	4.7MF	20%	50V
C1978	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1979	1-126-967-11	ELECT	47MF	20%	16V
C1980	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1981	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1982	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V

<CONNECTOR>

CN1951	* 1-774-244-11	CONNECTOR, BOARD TO BOARD 5P

<DIODE>

D1951	8-719-914-43	DIODE DAN202K

<IC>

IC1951	8-759-521-22	IC TDA4650/V4
IC1952	8-759-300-71	IC HD14053BFP
IC1953	8-759-181-19	IC TDA2579B

<COIL>

L1951	1-410-482-31	INDUCTOR 100UH
L1952	1-404-554-11	COIL
L1953	1-404-554-11	COIL
L1954	1-408-417-00	INDUCTOR 47UH

<TRANSISTOR>

Q1951	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1952	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1953	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1954	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1955	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1956	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1957	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q1958	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1951	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1952	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1953	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1954	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1955	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1956	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1957	1-216-037-00	METAL GLAZE	330	5%	1/10W
R1958	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1959	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1960	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1961	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1962	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R1963	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1964	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1965	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1966	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1967	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1968	1-216-295-11	CONDUCTOR, CHIP			
R1969	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1970	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1973	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1974	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1975	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1976	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1977	1-216-047-91	METAL GLAZE	820	5%	1/10W
R1978	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1979	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R1980	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1981	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1982	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1983	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1984	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1985	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1986	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1987	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1988	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1989	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W

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	* A-1245-586-A	F BOARD, COMPLETE (VPL-S800M)

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	* A-1245-592-A	F BOARD, COMPLETE (VPL-S800U)

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	* X-4034-118-1	PANEL (F) ASSY, REAR
	⚠ 1-572-067-11	SWITCH, PUSH (1 KEY)(AC POWER) (S800U)
	⚠ 1-572-067-21	SWITCH, PUSH (1 KEY)(AC POWER) (S800M)
	4-362-811-00	BUTTON, MAIN POWER
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE
	4-396-203-01	SCREW (+B M3X12), PREVENTION
	7-682-547-04	SCREW +P 3X6
	7-682-248-09	SCREW +K 3X8

<CAPACITOR>

C101	⚠ 1-113-907-51	CERAMIC	0.0022MF	20%	250V
C102	⚠ 1-113-907-51	CERAMIC	0.0022MF	20%	250V
C103	⚠ 1-113-511-11	FILM	0.47MF	20%	275V
C104	⚠ 1-113-912-51	CERAMIC	0.0047MF	20%	250V
C105	⚠ 1-113-912-51	CERAMIC	0.0047MF	20%	250V
C106	⚠ 1-107-533-51	FILM	1MF	20%	250V
C107	⚠ 1-113-912-51	CERAMIC	0.0047MF	20%	250V
C108	⚠ 1-113-912-51	CERAMIC	0.0047MF	20%	250V
C109	⚠ 1-113-511-11	FILM	0.47MF	20%	275V

<CONNECTOR>

CN101	⚠ 1-251-227-11	INLET, AC
CN102	1-750-096-11	PIN, CONNECTOR (PC BOARD)
CN103	1-750-096-11	PIN, CONNECTOR (PC BOARD)
CN104	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P

<COIL>

L101	⚠ 1-409-523-11	COIL, CHOKE 168UH
L102	⚠ 1-409-523-11	COIL, CHOKE 168UH

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<FUSE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
F101	⚠1-533-623-11	FUSE, GLASS CYLINDERICAL 10A (S800U)	
	1-533-250-11	HOLDER, FUSE ; F101	
F101	⚠1-576-233-11	FUSE (H.B.C.) 6.3A (S800M)	
	1-533-250-11	HOLDER, FUSE ; F101	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R101	⚠1-202-882-91	SOLID	560K	20%	1/2W
R102	⚠1-202-882-91	SOLID	560K	20%	1/2W

<TRANSFORMER>

REF. NO.	PART NO.	DESCRIPTION
T101	⚠1-431-160-11	TRANSFORMER, LINE FILTER
T102	⚠1-431-161-11	TRANSFORMER, LINE FILTER

<VARISTOR>

REF. NO.	PART NO.	DESCRIPTION
VD101	⚠1-801-073-41	VARISTOR ERZV14D471

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* A-1306-555-A M BOARD, COMPLETE

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PART NO.	DESCRIPTION
* X-4034-125-1	PANEL (M) ASSY, REAR
* 1-526-659-00	SOCKET, IC (DP) 28P
* 1-526-660-21	SOCKET, IC (DP) 32P
* 1-540-212-11	SOCKET (ROTARY SWITCH)
4-055-965-01	SCREW(S), M3
4-055-966-01	SPRING (S), COMPRESSION
7-682-248-09	SCREW +K 3X8
7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3
7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2001	1-128-401-11	ELECT	100MF	20%	25V
C2002	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2003	1-124-779-00	ELECT	10MF	20%	16V
C2004	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2005	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2007	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2009	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2010	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2011	1-128-401-11	ELECT	100MF	20%	25V
C2012	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2013	1-128-401-11	ELECT	100MF	20%	25V
C2014	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2025	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2026	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C2027	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C2028	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2031	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C2032	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C2035	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2037	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2038	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2039	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2040	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2046	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2048	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2049	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2050	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2051	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2052	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C2053	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2054	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2055	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2066	1-124-779-00	ELECT	10MF	20%	16V
C2070	1-124-779-00	ELECT	10MF	20%	16V
C2081	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C2082	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2083	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2084	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2085	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2086	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2087	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2088	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2089	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2090	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2091	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2092	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2094	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2095	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2096	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2097	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2098	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C2099	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2100	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2101	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2102	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2103	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2106	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C2107	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C2108	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2109	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2110	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2112	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2113	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2114	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2116	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2119	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2121	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2122	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2127	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2137	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2139	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2142	1-126-193-11	ELECT	1MF	20%	50V
C2143	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2147	1-126-193-11	ELECT	1MF	20%	50V
C2154	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2161	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2162	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2165	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2167	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2168	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2169	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2170	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2171	1-124-779-00	ELECT	10MF	20%	16V
C2172	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2173	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2174	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2175	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C2176	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2177	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2178	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2179	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2180	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2181	1-124-779-00	ELECT 10MF	20%	16V
C2183	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
		<CONNECTOR>		
CN2001	1-778-393-11	PIN, PC CONNECTOR 96P		
CN2002	1-778-393-11	PIN, PC CONNECTOR 96P		
		<DIODE>		
D2014	8-719-914-43	DIODE DAN202K		
D2027	8-719-914-43	DIODE DAN202K		
D2034	8-719-914-43	DIODE DAN202K		
D2035	8-719-914-43	DIODE DAN202K		
D2036	8-719-914-43	DIODE DAN202K		
D2088	8-719-158-17	DIODE RD5.6SB2		
D2089	8-719-158-17	DIODE RD5.6SB2		
D2090	8-719-158-17	DIODE RD5.6SB2		
D2091	8-719-158-17	DIODE RD5.6SB2		
D2092	8-719-158-17	DIODE RD5.6SB2		
D2093	8-719-914-44	DIODE DAP202K		
D2094	8-719-158-17	DIODE RD5.6SB2		
D2095	8-719-158-17	DIODE RD5.6SB2		
D2096	8-719-158-17	DIODE RD5.6SB2		
D2097	8-719-914-44	DIODE DAP202K		
D2103	8-719-914-43	DIODE DAN202K		
D2105	8-719-158-17	DIODE RD5.6SB2		
D2106	8-719-800-76	DIODE 1SS226		
D2108	8-719-800-76	DIODE 1SS226		
D2109	8-719-800-76	DIODE 1SS226		
D2110	8-719-158-17	DIODE RD5.6SB2		
D2111	8-719-914-44	DIODE DAP202K		
D2119	8-719-914-43	DIODE DAN202K		
D2120	8-719-914-43	DIODE DAN202K		
D2121	8-719-914-44	DIODE DAP202K		
D2122	8-719-800-76	DIODE 1SS226		
D2123	8-719-800-76	DIODE 1SS226		
D2124	8-719-800-76	DIODE 1SS226		
D2125	8-719-800-76	DIODE 1SS226		
D2126	8-719-158-17	DIODE RD5.6SB2		
D2127	8-719-158-17	DIODE RD5.6SB2		
		<FILTER>		
FL2001	1-239-466-21	FILTER, EMI		
FL2002	1-239-466-21	FILTER, EMI		
		<IC>		
IC2001	8-759-277-63	IC TC7W14FU(TE12R)		
IC2002	8-749-011-87	IC M48Z30Y-100PM1		
IC2003	8-759-449-35	IC HM62256BLFP-7		
IC2004	8-759-366-35	IC TC4W66F(TE12R)		
IC2006	8-759-081-42	IC TC74VHC00F		
IC2008	* 8-759-483-43	IC M27C2001-SX1628		
IC2009	8-759-328-96	IC PC16550DV		
IC2011	8-759-984-58	IC MB671469PF		
IC2012	8-759-035-87	IC SC7S00F		
IC2013	8-759-186-47	IC TC74VHC138F		
IC2015	8-759-464-78	IC HD6433048SA10F		
IC2016	8-752-381-91	IC CXD108-143Q		
IC2017	8-759-162-80	IC MM1170BFB		
IC2021	8-759-162-80	IC MM1170BFB		

REF. NO.	PART NO.	DESCRIPTION			REMARK
IC2022	8-759-032-53	IC MC74HC244AF			
IC2024	8-759-234-20	IC TC7S08F			
IC2025	8-759-335-04	IC CY7C136-55JC			
IC2026	8-759-335-04	IC CY7C136-55JC			
IC2027	8-759-186-29	IC TC74VHC11F			
IC2029	8-759-449-35	IC HM62256BLFP-7			
IC2030	8-759-186-47	IC TC74VHC138F			
IC2031	8-759-450-21	IC M27C512-SX1590			
IC2032	8-759-162-80	IC MM1170BFB			
IC2033	8-759-421-41	IC HD6433337WA08F			
IC2035	8-759-328-96	IC PC16550DV			
IC2036	8-759-058-58	IC TC7S04FU(TE85R)			
IC2037	8-759-032-20	IC MC74HC32AF			
IC2038	8-759-701-01	IC NJM2904M			
IC2041	8-759-035-87	IC SC7S00F			
IC2042	8-759-981-61	IC LM2901M			
IC2045	8-759-397-00	IC MAX489ECSD-TE2			
IC2046	8-759-180-84	IC TC7W74F			
IC2047	8-759-081-48	IC TC74VHC08F			
IC2049	8-759-233-02	IC TC74HC273AF			
IC2050	8-759-461-11	IC IC UPD17215GT-723-E2			
IC2052	8-759-082-58	IC TC7W08FU			
IC2053	8-759-443-08	IC TC7W241FU-TE12R			
IC2054	8-759-062-66	IC TC7S66F			
IC2055	8-759-081-42	IC TC74VHC00F			
IC2056	8-759-082-59	IC TC7W32FU			
IC2057	8-759-180-84	IC TC7W74F			
IC2058	8-759-239-55	IC TC74HC123AF			
		<JACK>			
J2001	1-507-562-00	JACK			
		<TRANSISTOR>			
Q2001	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2002	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2003	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2004	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2005	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2006	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2007	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2009	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2010	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2011	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2012	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2013	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2016	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2017	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2018	8-729-216-22	TRANSISTOR 2SA1162-G			
Q2020	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2021	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2022	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2023	8-729-014-93	TRANSISTOR 2SB1440S-TX			
Q2024	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2025	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2026	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q2032	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q2037	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R2001	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2002	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2003	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2004	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2005	1-216-025-91	METAL GLAZE	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R2006	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2007	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2008	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2009	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2010	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2011	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2012	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2013	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2014	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2015	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2016	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2017	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2018	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2019	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2020	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2021	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2022	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2023	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2024	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2025	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2026	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2027	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2028	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2029	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2030	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2031	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2032	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2033	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2034	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2035	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2037	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2038	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2039	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2040	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2041	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2042	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2043	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2044	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2045	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2046	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2047	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2048	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2049	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2050	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2051	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2052	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2053	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2054	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2055	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2056	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R2057	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2058	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2059	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2060	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R2061	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2062	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2063	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2064	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2065	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2066	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2067	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2068	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2069	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2070	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2071	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2072	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R2073	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2074	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2075	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2076	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2077	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2078	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2079	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2080	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2081	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2082	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2083	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2084	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2085	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2086	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2087	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2088	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2089	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2090	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2091	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2092	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2093	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2094	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2095	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2096	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2097	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2098	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2099	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2100	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2101	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2102	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2103	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2104	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2105	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2106	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2107	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2108	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2109	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2110	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2111	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2112	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2113	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2114	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2115	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2116	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2117	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2118	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2119	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2120	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2121	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2122	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2123	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2124	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2125	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2126	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2127	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2128	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2129	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2130	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2131	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2132	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2133	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2134	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2135	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2136	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2137	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2138	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2139	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2140	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2141	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2142	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2143	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2144	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2145	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2146	1-216-097-91	METAL GLAZE	100K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2147	1-216-047-91	METAL GLAZE	820	5%	1/10W
R2148	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2149	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2150	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2151	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2152	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2153	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2154	1-216-047-91	METAL GLAZE	820	5%	1/10W
R2155	1-216-047-91	METAL GLAZE	820	5%	1/10W
R2156	1-216-047-91	METAL GLAZE	820	5%	1/10W
R2157	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2158	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2159	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2160	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2161	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2162	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2163	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2164	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2165	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2166	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2167	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2168	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2169	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2170	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2171	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2172	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2173	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2174	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2175	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2178	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2179	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2180	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2181	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2182	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2183	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2184	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R2185	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2186	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2187	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2188	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2190	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R2193	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2195	1-249-377-11	CARBON	0.47	5%	1/4W F
R2196	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2197	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2199	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2200	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2202	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2203	1-216-295-11	CONDUCTOR, CHIP			
R2204	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R2205	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R2207	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2208	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R2210	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2211	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2212	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2214	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2215	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2216	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2217	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2218	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2219	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2220	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2221	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2222	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2223	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2224	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2225	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2226	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2227	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2228	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2229	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2230	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2231	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2232	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R2237	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2238	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2240	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2241	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2242	1-216-295-11	CONDUCTOR, CHIP			
R2243	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R2244	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2245	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2247	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2249	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2250	1-216-037-00	METAL GLAZE	330	5%	1/10W
R2251	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2254	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2255	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2256	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2257	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2258	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2259	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2260	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2261	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2264	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2265	1-216-295-11	CONDUCTOR, CHIP			
R2266	1-216-295-11	CONDUCTOR, CHIP			
R2267	1-216-295-11	CONDUCTOR, CHIP			
R2268	1-216-295-11	CONDUCTOR, CHIP			
R2269	1-216-295-11	CONDUCTOR, CHIP			
R2270	1-216-295-11	CONDUCTOR, CHIP			
R2271	1-216-295-11	CONDUCTOR, CHIP			
R2272	1-216-295-11	CONDUCTOR, CHIP			
R2274	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R2275	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2276	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2277	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2278	1-216-295-11	CONDUCTOR, CHIP			
R2279	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2281	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2285	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2286	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2287	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2288	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2290	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2291	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2292	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2296	1-216-295-11	CONDUCTOR, CHIP			
R2297	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2299	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2309	1-216-295-11	CONDUCTOR, CHIP			
R2312	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2313	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2314	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2315	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2316	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2317	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2318	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2319	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2324	1-216-295-11	CONDUCTOR, CHIP			
R2328	1-216-295-11	CONDUCTOR, CHIP			
R2329	1-216-295-11	CONDUCTOR, CHIP			
R2330	1-216-295-11	CONDUCTOR, CHIP			
R2331	1-216-295-11	CONDUCTOR, CHIP			
R2332	1-216-295-11	CONDUCTOR, CHIP			
R2334	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2335	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2339	1-216-295-11	CONDUCTOR, CHIP			
R2340	1-216-295-11	CONDUCTOR, CHIP			

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

M **GC** **GA**

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2341	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2342	1-216-295-11	CONDUCTOR, CHIP			
R2343	1-216-295-11	CONDUCTOR, CHIP			
R2344	1-216-295-11	CONDUCTOR, CHIP			
R2349	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2350	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2351	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2352	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2353	1-216-295-11	CONDUCTOR, CHIP			
R2354	1-216-295-11	CONDUCTOR, CHIP			
R2355	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2356	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2358	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R2359	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2360	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2361	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2362	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2364	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2365	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2366	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2367	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2368	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2369	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2370	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2371	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2372	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2373	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R2374	1-216-089-91	METAL GLAZE	47K	5%	1/10W

<VARIABLE RESISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
RV2001	1-238-091-11	RES, ADJ CERMET 22K	

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION	REMARK
S2001	1-572-853-11	SWITCH, ROTARY	
S2002	1-572-853-11	SWITCH, ROTARY	

<TERMINAL BOARD>

REF. NO.	PART NO.	DESCRIPTION	REMARK
TB2001	* 1-694-171-12	TERMINAL BOARD ASSY, I/O	
TB2002	* 1-694-172-11	TERMINAL BOARD ASSY, I/O	

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
X2001	1-579-070-41	VIBRATOR, CRYSTAL	
X2002	1-579-977-21	VIBRATOR, CRYSTAL	
X2003	1-760-491-11	VIBRATOR, CRYSTAL	
X2004	1-760-040-11	VIBRATOR, CRYSTAL	
X2005	1-760-491-11	VIBRATOR, CRYSTAL	
X2006	1-579-977-21	VIBRATOR, CRYSTAL	
X2007	1-760-496-21	VIBRATOR, LITHIUM NIOBATE	

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* A-1311-489-A GC BOARD, COMPLETE
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<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8502	⚠ 1-137-477-61	FILM	0.47MF	10%	400V
C8503	⚠ 1-113-903-51	CERAMIC	0.001MF	20%	250V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN8501	1-778-737-11	PIN, CONNECTOR (PC BOARD) 5P	

<HIGH-VOLTAGE BLOCK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IG8501	⚠ 1-453-218-11	HIGH-VOLTAGE BLOCK	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q8501	⚠ 8-719-059-26	DIODE K1V16TA	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8501	⚠ 1-260-336-71	CARBON	4.7K	5%	1/2W
R8502	⚠ 1-260-336-71	CARBON	4.7K	5%	1/2W

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⚠* A-1316-273-A GA BOARD, COMPLETE
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REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-543-923-11	BEAD, FERRITE	
	1-698-059-11	FAN, DC	
	* 4-056-598-01	SHEET, DUCT	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	7-682-248-09	SCREW +K 3X8	
	7-685-650-79	SCREW +BVTP 3X16 TYPE2 SLIT	

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8001	⚠ 1-113-511-11	FILM	0.47MF	20%	275V
C8003	⚠ 1-117-228-11	FILM	2.2MF	10%	450V
C8004	⚠ 1-117-227-11	FILM	1MF	10%	450V
C8005	⚠ 1-128-528-91	ELECT	470MF	20%	25V
C8006	⚠ 1-125-601-11	ELECT	470MF	20%	450V
C8007	⚠ 1-125-601-11	ELECT	470MF	20%	450V
C8008	⚠ 1-117-228-11	FILM	2.2MF	10%	450V
C8009	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8010	⚠ 1-164-644-91	CERAMIC	330PF	10%	500V
C8011	⚠ 1-164-644-91	CERAMIC	330PF	10%	500V
C8012	⚠ 1-117-233-11	FILM	0.012MF	5%	1.25KV
C8013	⚠ 1-117-233-11	FILM	0.012MF	5%	1.25KV
C8014	⚠ 1-117-233-11	FILM	0.012MF	5%	1.25KV
C8015	⚠ 1-128-526-91	ELECT	100MF	20%	25V
C8022	⚠ 1-117-186-11	FILM	2.2MF	10%	200V
C8023	⚠ 1-117-186-11	FILM	2.2MF	10%	200V
C8024	⚠ 1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8025	⚠ 1-137-477-61	FILM	0.47MF	10%	400V
C8026	⚠ 1-136-197-61	FILM	0.047MF	10%	400V
C8027	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8028	⚠ 1-163-251-91	CERAMIC CHIP	100PF	5%	50V
C8029	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8030	⚠ 1-128-526-91	ELECT	100MF	20%	25V
C8031	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8032	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8033	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8034	⚠ 1-107-824-81	CERAMIC	220PF	5%	1KV
C8035	⚠ 1-107-824-81	CERAMIC	220PF	5%	1KV
C8036	⚠ 1-165-127-91	CERAMIC	470PF	10%	500V
C8037	⚠ 1-136-497-11	FILM	0.1MF	5%	50V
C8038	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8039	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8040	⚠ 1-107-907-91	ELECT	22MF	20%	50V
C8041	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8042	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8043	⚠ 1-136-203-61	FILM	0.01MF	10%	630V
C8201	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8202	⚠ 1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V
C8203	⚠ 1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V
C8204	⚠ 1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

GA

REF. NO.	PART NO.	DESCRIPTION	REMARK
C8205	⚠1-164-004-91	CERAMIC CHIP 0.1MF 10%	25V
C8206	⚠1-164-004-91	CERAMIC CHIP 0.1MF 10%	25V
C8207	⚠1-163-263-91	CERAMIC CHIP 330PF 5%	50V
C8208	⚠1-163-009-91	CERAMIC CHIP 0.001MF 10%	50V
C8209	⚠1-163-251-91	CERAMIC CHIP 100PF 5%	50V
C8210	⚠1-164-004-91	CERAMIC CHIP 0.1MF 10%	25V
C8211	⚠1-163-275-91	CERAMIC CHIP 0.001MF 5%	50V
C8212	⚠1-164-004-91	CERAMIC CHIP 0.1MF 10%	25V
C8213	⚠1-107-902-91	ELECT 1MF 20%	50V
C8214	⚠1-163-021-91	CERAMIC CHIP 0.01MF 10%	50V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN8001	⚠1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	
CN8002	⚠1-778-737-11	PIN, CONNECTOR (PC BOARD) 5P	
CN8003	⚠1-564-505-11	PLUG, CONNECTOR 2P	
CN8004	⚠*1-564-507-41	PLUG, CONNECTOR 4P	
CN8005	⚠*1-774-248-11	CONNECTOR, BOARD TO BOARD 8P	
CN8006	⚠*1-774-247-11	CONNECTOR, BOARD TO BOARD 5P	
CN8007	⚠*1-774-249-11	CONNECTOR, BOARD TO BOARD 10P	
CN8008	⚠*1-564-508-31	PLUG, CONNECTOR 5P	
CN8009	⚠1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN8010	⚠*1-564-505-21	PLUG, CONNECTOR 2P	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D8001	⚠8-719-033-58	DIODE RBV-1506	
D8002	⚠8-719-124-09	DIODE 1S2836-T1	
D8003	⚠8-719-058-53	DIODE D8L60	
D8004	⚠8-719-510-18	DIODE D1NS4-TA	
D8005	⚠8-719-510-18	DIODE D1NS4-TA	
D8006	⚠8-719-058-54	DIODE D20LC40F	
D8007	⚠8-719-058-54	DIODE D20LC40F	
D8008	⚠8-719-058-43	DIODE RD120E-T1	
D8009	⚠8-719-058-54	DIODE D20LC40F	
D8010	⚠8-719-036-96	DIODE RD5.6SB2-T1	
D8011	⚠8-719-037-23	DIODE RD12SB1-T1	
D8201	⚠8-719-047-28	DIODE D1N20R-TR2	
D8202	⚠8-719-986-74	DIODE RB441QT-77	
D8203	⚠8-719-510-18	DIODE D1NS4-TA	
D8204	⚠8-719-112-34	DIODE RD7.5ES-T1B2	
D8205	⚠8-719-986-74	DIODE RB441QT-77	
D8206	⚠8-719-037-00	DIODE RD6.2SB2-T1	
D8207	⚠8-719-107-87	THYRISTOR 03P2M	
D8208	⚠8-719-104-26	DIODE 1S2837-T1	
D8209	⚠8-719-037-23	DIODE RD12SB1-T1	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC8201	⚠8-759-458-28	IC UC2854N	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L8003	⚠1-403-673-11	COIL, CHOKE 480UH	
L8004	⚠1-406-977-21	COIL, CHOKE 100UH	

<PHOTO COUPLER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
PH8001	⚠8-719-156-73	PHOTO COUPLER PS2501-1-L	
PH8002	⚠8-719-156-73	PHOTO COUPLER PS2501-1-L	
PH8003	⚠8-719-156-73	PHOTO COUPLER PS2501-1-L	
PH8004	⚠8-719-156-73	PHOTO COUPLER PS2501-1-L	
PH8005	⚠8-749-010-65	PHOTO COUPLER PC123YF2	
PH8006	⚠8-749-010-65	PHOTO COUPLER PC123YF2	
PH8007	⚠8-749-010-65	PHOTO COUPLER PC123YF2	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q8001	⚠8-729-039-56	TRANSISTOR 2SK2197F	
Q8002	⚠8-729-039-56	TRANSISTOR 2SK2197F	
Q8003	⚠8-729-188-23	TRANSISTOR 2SD882-P	
Q8004	⚠8-729-177-23	TRANSISTOR 2SB772-P	
Q8005	⚠8-729-188-23	TRANSISTOR 2SD882-P	
Q8006	⚠8-729-177-23	TRANSISTOR 2SB772-P	
Q8007	⚠8-729-039-56	TRANSISTOR 2SK2197F	
Q8008	⚠8-729-039-56	TRANSISTOR 2SK2197F	
Q8010	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8011	⚠8-729-927-08	TRANSISTOR IRFI-840	
Q8012	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q8013	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8014	⚠8-729-023-54	TRANSISTOR 2SB799-T1ML	
Q8015	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8016	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q8017	⚠8-729-808-11	TRANSISTOR 2SD1622-S-TD	
Q8201	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8202	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8203	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8001	⚠1-220-779-11	WIREWOUND 5.6 5% 7W	
R8002	⚠1-216-451-71	METAL OXIDE 120 5% 2W	F
R8003	⚠1-216-381-71	METAL OXIDE 0.22 5% 3W	F
R8004	⚠1-216-381-71	METAL OXIDE 0.22 5% 3W	F
R8005	⚠1-247-839-91	CARBON 2.2K 5% 1/4W	
R8006	⚠1-247-839-91	CARBON 2.2K 5% 1/4W	
R8007	⚠1-249-389-91	CARBON 4.7 5% 1/4W	F
R8008	⚠1-249-389-91	CARBON 4.7 5% 1/4W	F
R8009	⚠1-249-389-91	CARBON 4.7 5% 1/4W	F
R8010	⚠1-249-401-91	CARBON 47 5% 1/4W	F
R8011	⚠1-249-401-91	CARBON 47 5% 1/4W	F
R8012	⚠1-249-389-91	CARBON 4.7 5% 1/4W	F
R8013	⚠1-247-847-91	CARBON 4.7K 5% 1/4W	
R8014	⚠1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
R8015	⚠1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
R8016	⚠1-247-847-91	CARBON 4.7K 5% 1/4W	
R8017	⚠1-216-037-91	METAL GLAZE 330 5% 1/10W	
R8018	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8019	⚠1-217-611-71	RES, METAL PLATE 0.1	
R8020	⚠1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8021	⚠1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8022	⚠1-217-611-71	RES, METAL PLATE 0.1	
R8023	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8024	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8025	⚠1-215-880-21	METAL OXIDE 10 5% 2W	F
R8026	⚠1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8028	⚠1-216-045-91	METAL GLAZE 680 5% 1/10W	
R8029	⚠1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8030	⚠1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8031	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8032	⚠1-217-796-11	FUSIBLE 33 5% 5W	F
R8033	⚠1-220-752-51	WIREWOUND 0.1 1% 3W	
R8034	⚠1-220-752-51	WIREWOUND 0.1 1% 3W	
R8035	⚠1-220-752-51	WIREWOUND 0.1 1% 3W	
R8036	⚠1-217-796-11	FUSIBLE 33 5% 5W	F
R8037	⚠1-216-450-21	METAL OXIDE 82 5% 2W	F
R8038	⚠1-216-045-91	METAL GLAZE 680 5% 1/10W	
R8039	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8040	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8041	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8042	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8044	⚠1-217-151-11	RES, METAL PLATE 0.22	
R8045	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8046	⚠1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8047	⚠1-216-381-71	METAL OXIDE 0.22 5% 3W	F
R8048	⚠1-216-381-71	METAL OXIDE 0.22 5% 3W	F
R8049	⚠1-220-779-11	WIREWOUND 5.6 5% 7W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

GA GAB

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8050	⚠ 1-216-073-91	METAL GLAZE	10K	5%	1/10W
R8051	⚠ 1-216-073-91	METAL GLAZE	10K	5%	1/10W
R8052	⚠ 1-216-073-91	METAL GLAZE	10K	5%	1/10W
R8053	⚠ 1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8054	⚠ 1-216-073-91	METAL GLAZE	10K	5%	1/10W
R8201	⚠ 1-247-897-91	CARBON	560K	5%	1/4W
R8202	⚠ 1-247-895-91	CARBON	470K	5%	1/4W
R8203	⚠ 1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8204	⚠ 1-216-081-91	METAL GLAZE	22K	5%	1/10W
R8205	⚠ 1-247-897-91	CARBON	560K	5%	1/4W
R8206	⚠ 1-247-895-91	CARBON	470K	5%	1/4W
R8207	⚠ 1-216-105-91	METAL GLAZE	220K	5%	1/10W
R8208	⚠ 1-216-071-91	METAL GLAZE	8.2K	5%	1/10W
R8209	⚠ 1-216-667-91	METAL CHIP	4.7K	0.50%	1/10W
R8210	⚠ 1-216-651-91	METAL CHIP	1K	0.50%	1/10W
R8211	⚠ 1-216-121-91	METAL GLAZE	1M	5%	1/10W
R8212	⚠ 1-216-081-91	METAL GLAZE	22K	5%	1/10W
R8213	⚠ 1-216-668-91	METAL CHIP	5.1K	0.50%	1/10W
R8214	⚠ 1-216-101-91	METAL GLAZE	150K	5%	1/10W
R8215	⚠ 1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8216	⚠ 1-216-679-91	METAL CHIP	15K	0.50%	1/10W
R8217	⚠ 1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8218	⚠ 1-216-081-91	METAL GLAZE	22K	5%	1/10W
R8219	⚠ 1-216-069-91	METAL GLAZE	6.8K	5%	1/10W
R8220	⚠ 1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8221	⚠ 1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8222	⚠ 1-216-057-91	METAL GLAZE	2.2K	5%	1/10W
R8223	⚠ 1-216-065-91	METAL GLAZE	4.7K	5%	1/10W
R8224	⚠ 1-216-073-91	METAL GLAZE	10K	5%	1/10W
R8225	⚠ 1-216-089-91	METAL GLAZE	47K	5%	1/10W
R8226	⚠ 1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8227	⚠ 1-215-479-91	METAL	270K	1%	1/4W
R8228	⚠ 1-215-479-91	METAL	270K	1%	1/4W
R8229	⚠ 1-216-677-91	METAL CHIP	12K	0.50%	1/10W
R8230	⚠ 1-216-627-91	METAL CHIP	100	0.50%	1/10W
R8231	⚠ 1-215-479-91	METAL	270K	1%	1/4W
R8232	⚠ 1-215-479-91	METAL	270K	1%	1/4W
R8233	⚠ 1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R8234	⚠ 1-216-669-91	METAL CHIP	5.6K	0.50%	1/10W

<RELAY>

RY8001	⚠ 1-515-450-21	RELAY, POWER

<TRANSFORMER>

T8001	⚠ 1-429-938-11	TRANSFORMER, CONVERTER (PIT)

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* A-1311-491-A GAB BOARD, COMPLETE
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<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C8303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8306	1-128-526-11	ELECT	100MF	20%	16V
C8308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8309	1-124-589-11	ELECT	47MF	20%	16V
C8310	1-124-589-11	ELECT	47MF	20%	16V
C8312	1-126-096-11	ELECT	10MF	20%	35V
C8314	1-107-905-11	ELECT	4.7MF	20%	50V
C8319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8320	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8322	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C8323	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8326	1-107-888-11	ELECT	47MF	20%	25V

<CONNECTOR>

CN8301	* 1-774-245-11	CONNECTOR, BOARD TO BOARD 8P
CN8302	* 1-774-244-11	CONNECTOR, BOARD TO BOARD 5P

<DIODE>

D8301	8-719-104-34	DIODE 1S2836
D8302	8-719-104-34	DIODE 1S2836
D8303	8-719-104-34	DIODE 1S2836
D8305	8-719-118-15	DIODE RD36M-B
D8306	8-719-107-15	DIODE RD18M-T1B2
D8307	8-719-801-78	DIODE 1SS184
D8308	8-719-104-34	DIODE 1S2836
D8309	8-719-158-17	DIODE RD5.6SB2
D8310	8-719-158-17	DIODE RD5.6SB2
D8320	8-719-104-34	DIODE 1S2836
D8321	8-719-037-10	DIODE RD8.2SB2-T1
D8322	8-719-104-34	DIODE 1S2836
D8323	8-719-104-34	DIODE 1S2836
D8324	8-719-801-78	DIODE 1SS184

<IC>

IC8301	8-759-100-95	IC uPC324G2
IC8303	8-759-388-23	IC TL431BCDR2
IC8304	8-759-169-45	IC TA78L12F
IC8305	8-759-701-01	IC NJM2904M

<TRANSISTOR>

Q8301	8-729-216-22	TRANSISTOR 2SA1162-G
Q8302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8303	8-729-216-22	TRANSISTOR 2SA1162-G
Q8304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8306	8-729-216-22	TRANSISTOR 2SA1162-G
Q8307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8308	8-729-216-22	TRANSISTOR 2SA1162-G
Q8309	8-729-216-22	TRANSISTOR 2SA1162-G
Q8310	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8311	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q8314	8-729-216-22	TRANSISTOR 2SA1162-G

<RESISTOR>

R8301	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R8302	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8303	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R8304	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R8305	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R8306	1-216-295-11	CONDUCTOR, CHIP			
R8307	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R8308	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8309	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R8311	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R8312	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8313	1-220-154-11	METAL CHIP	100K	0.10%	1/10W
R8314	1-220-789-11	METAL CHIP	470	0.10%	1/10W
R8315	1-218-367-11	METAL CHIP	10K	0.10%	1/10W
R8316	1-220-789-11	METAL CHIP	470	0.10%	1/10W
R8317	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8318	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R8319	1-216-699-11	METAL CHIP	100K	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8321	1-216-033-00	METAL GLAZE	220	5%	1/10W
R8322	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R8323	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R8324	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8325	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8327	1-216-033-00	METAL GLAZE	220	5%	1/10W
R8328	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8331	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8332	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8333	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8334	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8336	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8337	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8338	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8342	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R8344	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R8345	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R8346	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R8347	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8348	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8349	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R8350	1-220-751-11	METAL	2.2K	0.10%	1/10W
R8351	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8352	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8353	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8354	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R8355	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8356	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8357	1-216-041-00	METAL GLAZE	470	5%	1/10W
R8358	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8359	1-216-025-91	METAL GLAZE	100	5%	1/10W
R8360	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R8362	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8363	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8364	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R8365	1-216-041-00	METAL GLAZE	470	5%	1/10W
R8367	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8368	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8369	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8370	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8371	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8372	1-220-789-11	METAL CHIP	470	0.10%	1/10W
R8373	1-218-772-11	METAL CHIP	680K	0.50%	1/10W
R8374	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8375	1-216-025-91	METAL GLAZE	100	5%	1/10W
R8376	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8377	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8378	1-220-154-11	METAL CHIP	100K	0.10%	1/10W

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* A-1311-492-A GAC BOARD, COMPLETE

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<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8403	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8404	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8407	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C8408	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C8409	1-107-888-11	ELECT	47MF	20%	25V
C8410	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8411	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C8412	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8417	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8418	1-164-222-11	CERAMIC CHIP	0.22MF		25V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION
CN8402	* 1-774-246-11	CONNECTOR, BOARD TO BOARD 10P

<DIODE>

REF. NO.	PART NO.	DESCRIPTION
D8401	8-719-986-73	DIODE RB441Q
D8402	8-719-986-73	DIODE RB441Q
D8403	8-719-911-19	DIODE 1SS119-25
D8404	8-719-037-39	DIODE RD18SB2-T1
D8405	8-719-911-19	DIODE 1SS119-25
D8406	8-719-911-19	DIODE 1SS119-25

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION
FB8401	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH

<FILTER>

REF. NO.	PART NO.	DESCRIPTION		REMARK
FL8401	1-162-617-11	CERAMIC	0.022MF	50V

<IC>

REF. NO.	PART NO.	DESCRIPTION
IC8401	8-759-298-87	IC CXA8038P

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION
Q8402	8-729-140-96	TRANSISTOR 2SD774-34
Q8403	8-729-104-75	TRANSISTOR 2SB799-ML
Q8404	8-729-104-75	TRANSISTOR 2SB799-ML

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R8401	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R8402	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8403	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R8404	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R8405	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R8407	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R8409	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8410	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8411	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8412	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8413	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R8414	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R8415	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R8416	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R8417	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R8418	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R8419	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R8421	1-249-389-11	CARBON	4.7	5%	1/4W	F
R8422	1-249-389-11	CARBON	4.7	5%	1/4W	F
R8423	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R8424	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	

<TRANSFORMER>

REF. NO.	PART NO.	DESCRIPTION
T8402	1-429-741-11	TRANSFORMER, DRIVE

<THERMISTOR>

REF. NO.	PART NO.	DESCRIPTION
TH8401	1-807-796-11	THERMISTOR

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

GB

REF. NO.	PART NO.	DESCRIPTION			REMARK
	⚠* A-1316-274-A	GB BOARD, COMPLETE			
		**********************			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C7001	⚠1-164-644-91	CERAMIC	330PF	10%	500V
C7002	⚠1-164-644-91	CERAMIC	330PF	10%	500V
C7003	⚠1-107-905-91	ELECT	4.7MF	20%	50V
C7004	⚠1-128-526-91	ELECT	100MF	20%	25V
C7005	⚠1-137-192-81	FILM	0.33MF	5%	50V
C7006	⚠1-137-192-81	FILM	0.33MF	5%	50V
C7007	⚠1-164-625-91	CERAMIC	680PF	10%	500V
C7008	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7009	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7010	⚠1-129-718-91	FILM	0.022MF	10%	630V
C7012	⚠1-163-809-91	CERAMIC CHIP	0.047MF	10%	25V
C7013	⚠1-107-890-91	ELECT	2200MF	20%	25V
C7014	⚠1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C7015	⚠1-107-891-91	ELECT	3300MF	20%	25V
C7016	⚠1-107-491-91	ELECT	1000MF	20%	25V
C7017	⚠1-107-878-91	ELECT	2200MF	20%	10V
C7018	⚠1-107-905-91	ELECT	4.7MF	20%	50V
C7019	⚠1-128-526-91	ELECT	100MF	20%	25V
C7020	⚠1-107-874-91	ELECT	10000MF	20%	6.3V
C7021	⚠1-128-526-91	ELECT	100MF	20%	25V
C7022	⚠1-107-869-91	ELECT	470MF	20%	6.3V
C7023	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7025	⚠1-137-477-61	FILM	0.47MF	10%	400V
C7026	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7027	⚠1-107-713-91	ELECT	4.7MF	20%	50V
C7028	⚠1-107-713-91	ELECT	4.7MF	20%	50V
C7201	⚠1-162-117-91	CERAMIC	100PF	10%	500V
C7202	⚠1-162-117-91	CERAMIC	100PF	10%	500V
C7203	⚠1-107-909-91	ELECT	47MF	20%	50V
C7204	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7205	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7206	⚠1-163-989-91	CERAMIC CHIP	0.033MF	10%	25V
C7207	⚠1-163-989-91	CERAMIC CHIP	0.033MF	10%	25V
C7208	⚠1-102-989-91	CERAMIC	68PF	5%	500V
C7209	⚠1-136-064-11	FILM	0.002MF	3%	2KV
C7210	⚠1-137-192-81	FILM	0.33MF	5%	50V
C7211	⚠1-107-873-91	ELECT	4700MF	20%	6.3V
C7212	⚠1-128-526-91	ELECT	100MF	20%	25V
C7213	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7214	⚠1-128-526-91	ELECT	100MF	20%	25V
C7215	⚠1-107-902-91	ELECT	1MF	20%	50V
C7216	⚠1-107-868-91	ELECT	330MF	20%	6.3V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN7003	⚠1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN7004	⚠*1-564-508-31	PLUG, CONNECTOR 5P	
CN7005	⚠*1-564-508-11	PLUG, CONNECTOR 5P	
CN7006	⚠*1-564-507-61	PLUG, CONNECTOR 4P	
CN7007	⚠*1-564-505-31	PLUG, CONNECTOR 2P	
CN7008	⚠*1-564-511-41	PLUG, CONNECTOR 8P	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D7001	⚠8-719-921-20	DIODE 1SS119-25TD	
D7002	⚠8-719-921-20	DIODE 1SS119-25TD	
D7003	⚠8-719-921-20	DIODE 1SS119-25TD	
D7004	⚠8-719-921-20	DIODE 1SS119-25TD	
D7005	⚠8-719-510-47	DIODE D1NL20-TA	
D7006	⚠8-719-052-91	DIODE D4SBS4-F	
D7007	⚠8-719-510-12	DIODE D10SC4M	
D7008	⚠8-719-046-92	DIODE D1NS6-TR	
D7009	⚠8-719-510-12	DIODE D10SC4M	
D7010	⚠8-719-124-09	DIODE 1S2836-T1	
D7011	⚠8-719-160-68	DIODE RD18FB2	
D7012	⚠8-719-510-12	DIODE D10SC4M	
D7013	⚠8-719-113-35	DIODE RD18ES-T1B2	
D7014	⚠8-719-124-09	DIODE 1S2836-T1	
D7015	⚠8-719-124-09	DIODE 1S2836-T1	
D7016	⚠8-719-124-09	DIODE 1S2836-T1	
D7201	⚠8-719-921-20	DIODE 1SS119-25TD	
D7202	⚠8-719-921-20	DIODE 1SS119-25TD	
D7203	⚠8-719-921-20	DIODE 1SS119-25TD	
D7205	⚠8-719-510-47	DIODE D1NL20-TA	
D7207	⚠8-719-510-47	DIODE D1NL20-TA	
D7208	⚠8-719-160-68	DIODE RD18FB2	
D7211	⚠8-719-510-12	DIODE D10SC4M	
D7212	⚠8-719-510-47	DIODE D1NL20-TA	
D7213	⚠8-719-510-47	DIODE D1NL20-TA	
D7214	⚠8-719-110-99	DIODE RD2.2ES-T1B2	
D7215	⚠8-719-110-99	DIODE RD2.2ES-T1B2	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC7002	⚠8-759-198-31	IC uPC1093J-1-T	
IC7201	⚠8-759-198-31	IC uPC1093J-1-T	
IC7202	⚠8-759-701-63	IC NJM78M20FA	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L7001	⚠1-406-659-11	COIL, CHOKE 10UH	
L7002	⚠1-412-525-41	INDUCTOR 10UH	
L7003	⚠1-406-659-11	COIL, CHOKE 10UH	
L7005	⚠1-406-667-21	COIL, CHOKE 220UH	
L7201	⚠1-406-659-11	COIL, CHOKE 10UH	

<PHOTO COUPLER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
PH7001	⚠8-749-010-65	PHOTO COUPLER PC123FY2	

<IC LINK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
PS7001	⚠1-533-593-31	LINK, IC	
PS7002	⚠1-533-595-31	LINK, IC	
PS7003	⚠1-533-790-31	LINK, IC	
PS7004	⚠1-533-597-31	LINK, IC	
PS7005	⚠1-533-590-31	LINK, IC	
PS7006	⚠1-533-595-31	LINK, IC	
PS7201	⚠1-533-596-31	LINK, IC	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q7001	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q7002	⚠8-729-016-15	TRANSISTOR 2SC4833MNP	
Q7003	⚠8-729-016-15	TRANSISTOR 2SC4833MNP	
Q7004	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q7005	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q7006	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q7007	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q7008	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q7009	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q7201	⚠8-729-039-74	TRANSISTOR 2SC4833MNP-1	
Q7202	⚠8-729-039-74	TRANSISTOR 2SC4833MNP-1	
Q7203	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION				REMARK
R7001	⚠1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R7002	⚠1-216-089-91	METAL GLAZE	47K	5%	1/10W	

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R7003	⚠1-260-128-81	CARBON	270K	5%	1/2W	
R7004	⚠1-260-128-81	CARBON	270K	5%	1/2W	
R7005	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7006	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7007	⚠1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R7008	⚠1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R7009	⚠1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R7010	⚠1-247-783-91	CARBON	10	5%	1/4W	
R7011	⚠1-260-123-81	CARBON	100K	5%	1/2W	
R7012	⚠1-260-123-81	CARBON	100K	5%	1/2W	
R7013	⚠1-247-771-91	CARBON	3.3	5%	1/4W	
R7014	⚠1-247-783-91	CARBON	10	5%	1/4W	
R7015	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7016	⚠1-247-771-91	CARBON	3.3	5%	1/4W	
R7017	⚠1-211-800-71	FUSIBLE	2.2	5%	1/2W	F
R7018	⚠1-216-113-91	METAL GLAZE	470K	5%	1/10W	
R7019	⚠1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R7020	⚠1-216-661-91	METAL CHIP	2.7K	0.50%	1/10W	
R7021	⚠1-216-681-91	METAL CHIP	18K	0.50%	1/10W	
R7022	⚠1-216-667-91	METAL CHIP	4.7K	0.50%	1/10W	
R7023	⚠1-216-025-91	METAL GLAZE	100	5%	1/10W	
R7024	⚠1-249-387-91	CARBON	3.3	5%	1/4W	F
R7025	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7026	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7027	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7028	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7029	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7030	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7031	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7032	⚠1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R7033	⚠1-216-025-91	METAL GLAZE	100	5%	1/10W	
R7034	⚠1-216-041-91	METAL GLAZE	470	5%	1/10W	
R7035	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7201	⚠1-249-377-91	CARBON	0.47	5%	1/4W	F
R7202	⚠1-249-377-91	CARBON	0.47	5%	1/4W	F
R7203	⚠1-247-891-91	CARBON	330K	5%	1/4W	
R7204	⚠1-247-891-91	CARBON	330K	5%	1/4W	
R7205	⚠1-247-891-91	CARBON	330K	5%	1/4W	
R7206	⚠1-247-891-91	CARBON	330K	5%	1/4W	
R7207	⚠1-216-304-91	METAL GLAZE	3.3	5%	1/10W	
R7208	⚠1-216-304-91	METAL GLAZE	3.3	5%	1/10W	
R7209	⚠1-216-667-91	METAL CHIP	4.7K	0.50%	1/10W	
R7210	⚠1-216-081-91	METAL GLAZE	22K	5%	1/10W	
R7211	⚠1-216-667-91	METAL CHIP	4.7K	0.50%	1/10W	
R7212	⚠1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R7213	⚠1-249-393-91	CARBON	10	5%	1/4W	F
R7214	⚠1-216-643-91	METAL CHIP	470	0.50%	1/10W	

<TRANSFORMER>

REF. NO.	PART NO.	DESCRIPTION
T7001	⚠1-427-864-13	TRANSFORMER, CONVERTER (PRT)
T7002	⚠1-429-742-11	TRANSFORMER, CONVERTER (PIT)
T7003	⚠1-429-940-11	TRANSFORMER, CONVERTER (PIT)
T7201	⚠1-427-864-13	TRANSFORMER, CONVERTER (PRT)
T7202	⚠1-429-939-11	TRANSFORMER, CONVERTER (PIT)

<VARISTOR>

REF. NO.	PART NO.	DESCRIPTION
VDR700	⚠1-801-452-51	VARISTOR TNR14V361K660

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REF. NO.	PART NO.	DESCRIPTION
	*A-1335-095-A	C BOARD, COMPLETE
		**********************
	1-540-151-21	SOCKET, IC
	*4-056-640-01	SHEET (F), HEAT
	*4-056-672-01	CASE (BOTTOM LID), C SHIELD

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5007	1-126-204-11	ELECT	47MF	20%	16V
C5009	1-128-401-11	ELECT	100MF	20%	25V
C5014	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5028	1-128-401-11	ELECT	100MF	20%	25V
C5029	1-128-401-11	ELECT	100MF	20%	25V
C5030	1-128-401-11	ELECT	100MF	20%	25V
C5031	1-126-204-11	ELECT	47MF	20%	16V
C5032	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5033	1-126-204-11	ELECT	47MF	20%	16V
C5034	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5035	1-126-603-11	ELECT	4.7MF	20%	35V
C5036	1-128-401-11	ELECT	100MF	20%	25V
C5037	1-128-401-11	ELECT	100MF	20%	25V
C5038	1-126-603-11	ELECT	4.7MF	20%	35V
C5039	1-126-204-11	ELECT	47MF	20%	16V
C5102	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5103	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5105	1-126-204-11	ELECT	47MF	20%	16V
C5106	1-126-204-11	ELECT	47MF	20%	16V
C5107	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C5108	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5110	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5111	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5112	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5113	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5114	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5115	1-126-204-11	ELECT	47MF	20%	16V
C5116	1-126-204-11	ELECT	47MF	20%	16V
C5117	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5118	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5119	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5120	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C5121	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5122	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5127	1-126-204-11	ELECT	47MF	20%	16V
C5129	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5130	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5131	1-126-204-11	ELECT	47MF	20%	16V
C5132	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C5133	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5134	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5135	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5136	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5137	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C5138	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V
C5201	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5252	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C5253	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C5255	1-128-401-11	ELECT	100MF	20%	25V
C5256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5258	1-126-204-11	ELECT	47MF	20%	16V
C5259	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5260	1-128-401-11	ELECT	100MF	20%	25V
C5261	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5262	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5263	1-126-204-11	ELECT	47MF	20%	16V
C5264	1-163-113-00	CERAMIC CHIP	68PF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C5301	1-126-204-11	ELECT	47MF	20%	16V
C5302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5303	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5306	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5308	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5311	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5312	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C5351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5353	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5501	1-128-401-11	ELECT	100MF	20%	25V
C5502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5503	1-128-401-11	ELECT	100MF	20%	25V
C5504	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5505	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5506	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5507	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5508	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5509	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5510	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5511	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5512	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5513	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5514	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5515	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5516	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5517	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5518	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5519	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5520	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5521	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5522	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5523	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5524	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5525	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5526	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5527	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5528	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5529	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5530	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5531	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5532	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5533	1-126-204-11	ELECT	47MF	20%	16V
C5534	1-126-204-11	ELECT	47MF	20%	16V
C5536	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5540	1-126-204-11	ELECT	47MF	20%	16V
C5541	1-126-204-11	ELECT	47MF	20%	16V
C5542	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5543	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5544	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5545	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5546	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5548	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5550	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5551	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5552	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5601	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5602	1-126-204-11	ELECT	47MF	20%	16V
C5604	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5605	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5606	1-128-401-11	ELECT	100MF	20%	25V
C5607	1-128-401-11	ELECT	100MF	20%	25V
C5609	1-126-200-11	ELECT	10MF	20%	35V
C5610	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5611	1-128-401-11	ELECT	100MF	20%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5612	1-128-401-11	ELECT	100MF	20%	25V
C5613	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5702	1-126-204-11	ELECT	47MF	20%	16V
C5704	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5705	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5706	1-128-401-11	ELECT	100MF	20%	25V
C5707	1-128-401-11	ELECT	100MF	20%	25V
C5709	1-126-200-11	ELECT	10MF	20%	35V
C5710	1-128-401-11	ELECT	100MF	20%	25V
C5711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5712	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5713	1-128-401-11	ELECT	100MF	20%	25V
C5801	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5802	1-126-204-11	ELECT	47MF	20%	16V
C5804	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5805	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5806	1-128-401-11	ELECT	100MF	20%	25V
C5807	1-128-401-11	ELECT	100MF	20%	25V
C5809	1-126-200-11	ELECT	10MF	20%	35V
C5810	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5811	1-128-401-11	ELECT	100MF	20%	25V
C5812	1-128-401-11	ELECT	100MF	20%	25V
C5813	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

<CONNECTOR>

CN5001		1-778-393-11	PIN, PC CONNECTOR 96P
CN5002	*	1-564-507-11	PLUG, CONNECTOR 4P
CN5601	*	1-764-829-11	CONNECTOR, FPC 24P
CN5701	*	1-764-829-11	CONNECTOR, FPC 24P
CN5801	*	1-764-829-11	CONNECTOR, FPC 24P

<DIODE>

D5014	8-719-158-17	DIODE RD5.6SB2
D5601	8-719-053-40	DIODE SC016-2-TE12RA
D5701	8-719-053-40	DIODE SC016-2-TE12RA
D5801	8-719-053-40	DIODE SC016-2-TE12RA

<FERRITE BEAD>

FB5501	1-414-234-11	INDUCTOR, FERRITE BEAD
FB5502	1-414-234-11	INDUCTOR, FERRITE BEAD

<FILTER>

FL5001	1-239-400-11	FILTER, CHIP EMI
FL5002	1-239-400-11	FILTER, CHIP EMI
FL5003	1-239-400-11	FILTER, CHIP EMI
FL5004	1-239-400-11	FILTER, CHIP EMI
FL5005	1-239-400-11	FILTER, CHIP EMI
FL5006	1-239-400-11	FILTER, CHIP EMI
FL5007	1-239-400-11	FILTER, CHIP EMI
FL5008	1-239-400-11	FILTER, CHIP EMI
FL5009	1-239-400-11	FILTER, CHIP EMI
FL5010	1-239-400-11	FILTER, CHIP EMI
FL5011	1-239-466-21	FILTER, EMI
FL5012	1-239-466-21	FILTER, EMI
FL5013	1-239-400-11	FILTER, CHIP EMI
FL5017	1-239-400-11	FILTER, CHIP EMI
FL5018	1-239-400-11	FILTER, CHIP EMI
FL5019	1-239-400-11	FILTER, CHIP EMI
FL5020	1-239-400-11	FILTER, CHIP EMI
FL5021	1-239-400-11	FILTER, CHIP EMI
FL5022	1-239-466-21	FILTER, EMI
FL5023	1-239-466-21	FILTER, EMI
FL5024	1-239-466-21	FILTER, EMI
FL5025	1-239-466-21	FILTER, EMI
FL5301	1-239-466-21	FILTER, EMI

REF. NO.	PART NO.	DESCRIPTION	REMARK
FL5302	1-239-400-11	FILTER, CHIP EMI	
FL5303	1-239-400-11	FILTER, CHIP EMI	
FL5351	1-239-558-11	FILTER, CHIP EMI	
FL5352	1-239-558-11	FILTER, CHIP EMI	
FL5353	1-239-558-11	FILTER, CHIP EMI	
FL5354	1-239-558-11	FILTER, CHIP EMI	
FL5355	1-239-558-11	FILTER, CHIP EMI	
FL5356	1-239-558-11	FILTER, CHIP EMI	
FL5357	1-239-558-11	FILTER, CHIP EMI	
FL5358	1-239-558-11	FILTER, CHIP EMI	
FL5359	1-239-558-11	FILTER, CHIP EMI	
FL5360	1-239-558-11	FILTER, CHIP EMI	
FL5361	1-239-558-11	FILTER, CHIP EMI	
FL5362	1-239-558-11	FILTER, CHIP EMI	
FL5363	1-239-558-11	FILTER, CHIP EMI	
FL5364	1-239-558-11	FILTER, CHIP EMI	
FL5601	1-239-558-11	FILTER, CHIP EMI	
FL5602	1-239-558-11	FILTER, CHIP EMI	
FL5603	1-239-558-11	FILTER, CHIP EMI	
FL5604	1-239-558-11	FILTER, CHIP EMI	
FL5605	1-239-558-11	FILTER, CHIP EMI	
FL5606	1-239-558-11	FILTER, CHIP EMI	
FL5607	1-239-400-11	FILTER, CHIP EMI	
FL5608	1-239-400-11	FILTER, CHIP EMI	
FL5701	1-239-558-11	FILTER, CHIP EMI	
FL5702	1-239-558-11	FILTER, CHIP EMI	
FL5703	1-239-558-11	FILTER, CHIP EMI	
FL5704	1-239-558-11	FILTER, CHIP EMI	
FL5705	1-239-558-11	FILTER, CHIP EMI	
FL5706	1-239-558-11	FILTER, CHIP EMI	
FL5707	1-239-400-11	FILTER, CHIP EMI	
FL5708	1-239-400-11	FILTER, CHIP EMI	
FL5801	1-239-558-11	FILTER, CHIP EMI	
FL5802	1-239-558-11	FILTER, CHIP EMI	
FL5803	1-239-558-11	FILTER, CHIP EMI	
FL5804	1-239-558-11	FILTER, CHIP EMI	
FL5805	1-239-558-11	FILTER, CHIP EMI	
FL5806	1-239-558-11	FILTER, CHIP EMI	
FL5807	1-239-400-11	FILTER, CHIP EMI	
FL5808	1-239-400-11	FILTER, CHIP EMI	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC5003	8-759-174-16	IC TC74VHC244F	
IC5004	8-759-444-11	IC RH5VL51AA-T1	
IC5005	8-759-157-17	IC PQ05SZ1U	
IC5006	8-759-388-31	IC PQ20VZ1U	
IC5007	8-759-259-77	IC PQ20VZ5U	
IC5008	8-759-388-31	IC PQ20VZ1U	
IC5102	8-759-258-91	IC M52321SP	
IC5103	8-759-426-18	IC MB88141PF-ER	
IC5201	8-759-186-39	IC TC74VHC74F	
IC5202	8-759-186-39	IC TC74VHC74F	
IC5203	8-759-185-67	IC TC74VHC20F(EL)	
IC5204	8-759-081-48	IC TC74VHC08F	
IC5205	8-759-186-57	IC TC74VHC175F	
IC5206	8-759-196-97	IC TC7SH32FU-TE85R	
IC5251	* 8-759-487-61	IC M27C2001-TABLE-SX1628	
IC5252	8-759-437-35	IC MB90091APF-116	
IC5253	* 8-759-487-60	IC M27C2001-FONT-SX1628	
IC5301	8-759-482-35	IC MC100ELT20DR2	
IC5302	8-752-382-63	IC CXD2442Q	
IC5352	8-759-277-63	IC TC7W14FU(TE12R)	
IC5501	8-759-064-36	IC MB88346BPFV	
IC5502	8-752-080-98	IC CXA2111R	
IC5503	8-759-064-36	IC MB88346BPFV	
IC5504	8-759-482-47	IC M62399FP-TE2	
IC5601	8-752-080-99	IC CXA2112R	
IC5701	8-752-080-99	IC CXA2112R	
IC5801	8-752-080-99	IC CXA2112R	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L5001	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5251	1-410-377-31	INDUCTOR CHIP 4.7UH	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q5001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5002	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q5003	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q5004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5005	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q5101	8-729-140-47	TRANSISTOR 2SC3735-L-B35	
Q5112	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5601	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5602	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5603	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5701	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5702	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5703	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5704	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5801	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5802	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5803	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5804	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
R5001	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5002	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5003	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5004	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5005	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5006	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5007	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5008	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5009	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5010	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5011	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5012	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5013	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5014	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5015	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5016	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5017	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5018	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5019	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5020	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5021	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5022	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5023	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5024	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5029	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5030	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5032	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5033	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5034	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5035	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5036	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5037	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5038	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R5041	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5042	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5043	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5044	1-216-089-91	METAL GLAZE 47K 5% 1/10W	

C

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5046	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5047	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5048	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5050	1-216-625-11	METAL CHIP	82	0.50%	1/10W
R5051	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5053	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5054	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5055	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5056	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5057	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R5058	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5059	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5060	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5061	1-216-295-11	CONDUCTOR, CHIP			
R5062	1-216-295-11	CONDUCTOR, CHIP			
R5063	1-216-295-11	CONDUCTOR, CHIP			
R5065	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R5066	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R5067	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R5068	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5069	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R5070	1-216-041-00	METAL GLAZE	470	5%	1/10W
R5071	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R5072	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5073	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R5074	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5075	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R5076	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5077	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R5078	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5079	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R5080	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R5081	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5082	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R5083	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5084	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5085	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5086	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R5087	1-216-295-11	CONDUCTOR, CHIP			
R5102	1-216-295-11	CONDUCTOR, CHIP			
R5103	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5104	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5105	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5106	1-216-194-00	METAL GLAZE	680	5%	1/8W
R5107	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5108	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5109	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R5110	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5111	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5112	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5113	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5114	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5115	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5116	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5117	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5118	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R5119	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5120	1-216-194-00	METAL GLAZE	680	5%	1/8W
R5121	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5122	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5124	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R5125	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5126	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5128	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5129	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5132	1-216-295-11	CONDUCTOR, CHIP			
R5133	1-216-194-00	METAL GLAZE	680	5%	1/8W
R5135	1-216-619-11	METAL CHIP	47	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5136	1-216-017-91	METAL GLAZE	47	5%	1/10W
R5137	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5138	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5139	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5140	1-216-043-91	METAL GLAZE	560	5%	1/10W
R5141	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R5142	1-216-295-11	CONDUCTOR, CHIP			
R5143	1-216-035-00	METAL GLAZE	270	5%	1/10W
R5144	1-216-045-00	METAL GLAZE	680	5%	1/10W
R5145	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R5146	1-216-001-00	METAL GLAZE	10	5%	1/10W
R5167	1-216-295-11	CONDUCTOR, CHIP			
R5168	1-216-295-11	CONDUCTOR, CHIP			
R5169	1-216-295-11	CONDUCTOR, CHIP			
R5173	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R5174	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R5251	1-216-295-11	CONDUCTOR, CHIP			
R5252	1-216-295-11	CONDUCTOR, CHIP			
R5253	1-216-295-11	CONDUCTOR, CHIP			
R5255	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R5257	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R5259	1-216-295-11	CONDUCTOR, CHIP			
R5260	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5262	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5263	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5264	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5265	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5266	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5267	1-216-295-11	CONDUCTOR, CHIP			
R5268	1-216-295-11	CONDUCTOR, CHIP			
R5270	1-216-295-11	CONDUCTOR, CHIP			
R5271	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5302	1-216-037-00	METAL GLAZE	330	5%	1/10W
R5303	1-216-037-00	METAL GLAZE	330	5%	1/10W
R5305	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5306	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5351	1-216-017-91	METAL GLAZE	47	5%	1/10W
R5353	1-216-017-91	METAL GLAZE	47	5%	1/10W
R5355	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5356	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5357	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5358	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5359	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5360	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5361	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5362	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5363	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5364	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5365	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5366	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5367	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5368	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5369	1-216-295-11	CONDUCTOR, CHIP			
R5501	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5502	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5503	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5504	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5505	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5506	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5507	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5508	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5509	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5510	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5511	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5512	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5513	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5514	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5515	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5516	1-216-025-91	METAL GLAZE	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R5517	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5519	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5520	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5521	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5522	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5523	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5524	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5525	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5526	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5527	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5528	1-216-681-11	METAL CHIP 18K	0.50%	1/10W
R5529	1-216-675-11	METAL CHIP 10K	0.50%	1/10W
R5530	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5531	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5532	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5533	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5534	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5535	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5536	1-216-295-11	CONDUCTOR, CHIP		
R5537	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5538	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5539	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5540	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5541	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5547	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5548	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R5549	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5550	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5551	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5552	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5553	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5554	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5555	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5556	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5557	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5558	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R5559	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5561	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5563	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5564	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5565	1-216-295-11	CONDUCTOR, CHIP		
R5566	1-216-295-11	CONDUCTOR, CHIP		
R5567	1-216-295-11	CONDUCTOR, CHIP		
R5568	1-216-295-11	CONDUCTOR, CHIP		
R5570	1-216-295-11	CONDUCTOR, CHIP		
R5603	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5604	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5605	1-216-685-11	METAL CHIP 27K	0.50%	1/10W
R5607	1-216-295-11	CONDUCTOR, CHIP		
R5609	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5610	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5611	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5612	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5613	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5614	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5615	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5616	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5617	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5618	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5619	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5620	1-216-295-11	CONDUCTOR, CHIP		
R5703	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5704	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5705	1-216-685-11	METAL CHIP 27K	0.50%	1/10W
R5707	1-216-295-11	CONDUCTOR, CHIP		
R5709	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5710	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5711	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5712	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5713	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5714	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5715	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5716	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5717	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5718	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5719	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5720	1-216-295-11	CONDUCTOR, CHIP		
R5803	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5804	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5805	1-216-685-11	METAL CHIP 27K	0.50%	1/10W
R5806	1-216-295-11	CONDUCTOR, CHIP		
R5807	1-216-295-11	CONDUCTOR, CHIP		
R5809	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5810	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5811	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5812	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5813	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5814	1-216-017-91	METAL GLAZE 47	5%	1/10W
R5815	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5816	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5817	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R5818	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5819	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5820	1-216-295-11	CONDUCTOR, CHIP		
		<THERMISTOR>		
TH5001	1-806-715-11	THERMISTOR		

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	* A-1342-364-A	V BOARD, COMPLETE		
	1-778-697-11	HOUSING, CONNECTOR 3P		
		<CONNECTOR>		
CN6801	* 1-564-519-11	PLUG, CONNECTOR 4P		
		<FUSE>		
F6801	1-532-990-11	FUSE, TEMPERATURE		
		<SWITCH>		
S6801	1-692-947-11	SWITCH, THERMAL GUARD		

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	* A-1373-644-A	UB BOARD, COMPLETE		
		<SWITCH>		
S6701	1-570-245-11	SWITCH, MICRO		

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REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1373-645-A	UA BOARD, COMPLETE ***********************	

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN6601	* 1-564-517-11	PLUG, CONNECTOR 2P	

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION	REMARK
S6601	1-570-245-11	SWITCH, MICRO	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1375-167-A	H BOARD, COMPLETE *********************	

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
C6001	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6002	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6003	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6004	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6005	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6006	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C6007	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C6008	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C6009	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C6010	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C6011	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C6012	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C6025	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN6001	* 1-580-756-21	PIN, CONNECTOR 7P	
CN6002	1-580-789-21	PIN, CONNECTOR (SMD) 6P	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D6001	8-719-800-76	DIODE 1SS226	
D6002	8-719-800-76	DIODE 1SS226	
D6003	8-719-800-76	DIODE 1SS226	
D6004	8-719-061-14	DIODE NAR143S-B	
D6005	8-719-800-76	DIODE 1SS226	
D6006	8-719-800-76	DIODE 1SS226	
D6007	8-719-800-76	DIODE 1SS226	
D6008	8-719-800-76	DIODE 1SS226	
D6009	8-719-061-14	DIODE NAR143S-B	
D6010	8-719-800-76	DIODE 1SS226	
D6011	8-719-800-76	DIODE 1SS226	
D6012	8-719-800-76	DIODE 1SS226	
D6013	8-719-800-76	DIODE 1SS226	
D6014	8-719-800-76	DIODE 1SS226	
D6015	8-719-800-76	DIODE 1SS226	
D6016	8-719-800-76	DIODE 1SS226	
D6017	8-719-800-76	DIODE 1SS226	
D6018	8-719-800-76	DIODE 1SS226	
D6019	8-719-800-76	DIODE 1SS226	
D6020	8-719-800-76	DIODE 1SS226	
D6021	8-719-045-53	DIODE SEC1801C	
D6022	8-719-045-53	DIODE SEC1801C	
D6023	8-719-045-53	DIODE SEC1801C	
D6024	8-719-800-76	DIODE 1SS226	
D6025	8-719-800-76	DIODE 1SS226	
D6026	8-719-800-76	DIODE 1SS226	
D6027	8-719-800-76	DIODE 1SS226	
D6028	8-719-800-76	DIODE 1SS226	
D6029	8-719-045-61	DIODE SEC1901C	
D6030	8-719-045-61	DIODE SEC1901C	
D6031	8-719-800-76	DIODE 1SS226	
D6032	8-719-800-76	DIODE 1SS226	
D6033	8-719-800-76	DIODE 1SS226	
D6034	8-719-800-76	DIODE 1SS226	
D6035	8-719-045-61	DIODE SEC1901C	
D6036	8-719-045-61	DIODE SEC1901C	
D6037	8-719-045-61	DIODE SEC1901C	
D6038	8-719-045-61	DIODE SEC1901C	
D6039	8-719-045-61	DIODE SEC1901C	
D6040	8-719-045-61	DIODE SEC1901C	
D6041	8-719-045-61	DIODE SEC1901C	
D6042	8-719-045-61	DIODE SEC1901C	
D6043	8-719-045-61	DIODE SEC1901C	
D6044	8-719-045-61	DIODE SEC1901C	
D6045	8-719-045-61	DIODE SEC1901C	
D6046	8-719-045-61	DIODE SEC1901C	
D6047	8-719-045-61	DIODE SEC1901C	
D6048	8-719-045-61	DIODE SEC1901C	
D6049	8-719-045-61	DIODE SEC1901C	
D6050	8-719-045-61	DIODE SEC1901C	
D6051	8-719-045-61	DIODE SEC1901C	
D6052	8-719-045-61	DIODE SEC1901C	
D6053	8-719-045-61	DIODE SEC1901C	
D6054	8-719-045-61	DIODE SEC1901C	
D6055	8-719-045-61	DIODE SEC1901C	
D6056	8-719-045-61	DIODE SEC1901C	
D6057	8-719-045-61	DIODE SEC1901C	
D6058	8-719-045-61	DIODE SEC1901C	
D6059	8-719-045-53	DIODE SEC1801C	
D6060	8-719-045-61	DIODE SEC1901C	
D6061	8-719-045-61	DIODE SEC1901C	
D6062	8-719-045-60	DIODE SEC1401C	
D6063	8-719-045-53	DIODE SEC1801C	
D6064	8-719-045-53	DIODE SEC1801C	
D6065	8-719-045-53	DIODE SEC1801C	
D6066	8-719-045-55	DIODE SEC1201C	
D6067	8-719-045-61	DIODE SEC1901C	
D6068	8-719-045-61	DIODE SEC1901C	
D6069	8-719-045-53	DIODE SEC1801C	
D6070	8-719-914-44	DIODE DAP202K	
D6071	8-719-914-44	DIODE DAP202K	
D6072	8-719-914-44	DIODE DAP202K	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC6001	8-759-285-63	IC PC74HC126D-T	
IC6002	8-742-010-11	HYB IC SBX1971-51	
IC6003	8-759-467-84	IC MC68HC05P6SC442119B	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q6001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6002	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6005	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6006	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6007	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6008	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6009	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6010	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
R6001	1-216-025-91	METAL GLAZE 100 5%	1/10W
R6002	1-216-025-91	METAL GLAZE 100 5%	1/10W
R6003	1-216-025-91	METAL GLAZE 100 5%	1/10W
R6004	1-216-025-91	METAL GLAZE 100 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6005	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6006	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6007	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6008	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6009	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6010	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6011	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6012	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6013	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6014	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6015	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6016	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6017	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6018	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6019	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6020	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6021	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6022	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6023	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6024	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6025	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R6026	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6027	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6028	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6029	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6030	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6031	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6032	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6033	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6034	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6035	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6036	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6037	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6038	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6039	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6040	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6041	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6042	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6043	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6044	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6045	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6046	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6047	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6048	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6049	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6050	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6051	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6052	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6053	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6054	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6055	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6056	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6057	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6058	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6059	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6060	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6061	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6062	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6063	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6064	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6065	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6066	1-216-033-00	METAL GLAZE	220	5%	1/10W
R6067	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6068	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6069	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6070	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6071	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6072	1-216-073-00	METAL GLAZE	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6073	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6074	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6075	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6076	1-216-089-91	METAL GLAZE	47K	5%	1/10W

<SWITCH>

S6001	1-692-679-21	SWITCH, TACTILE
S6002	1-692-679-21	SWITCH, TACTILE
S6003	1-692-679-21	SWITCH, TACTILE
S6004	1-692-679-21	SWITCH, TACTILE
S6005	1-692-679-21	SWITCH, TACTILE
S6006	1-692-679-21	SWITCH, TACTILE
S6007	1-692-679-21	SWITCH, TACTILE
S6008	1-692-679-21	SWITCH, TACTILE
S6009	1-692-679-21	SWITCH, TACTILE
S6010	1-692-679-21	SWITCH, TACTILE
S6011	1-692-679-21	SWITCH, TACTILE
S6012	1-692-679-21	SWITCH, TACTILE
S6013	1-692-679-21	SWITCH, TACTILE
S6014	1-692-679-21	SWITCH, TACTILE
S6015	1-692-679-21	SWITCH, TACTILE
S6016	1-692-679-21	SWITCH, TACTILE
S6017	1-692-679-21	SWITCH, TACTILE
S6018	1-692-679-21	SWITCH, TACTILE
S6019	1-692-679-21	SWITCH, TACTILE
S6020	1-692-679-21	SWITCH, TACTILE
S6021	1-692-679-21	SWITCH, TACTILE
S6022	1-692-679-21	SWITCH, TACTILE
S6023	1-692-679-21	SWITCH, TACTILE
S6024	1-692-679-21	SWITCH, TACTILE
S6025	1-692-679-21	SWITCH, TACTILE
S6026	1-692-679-21	SWITCH, TACTILE

<CRYSTAL>

X6001	1-760-496-21	VIBRATOR, LITHIUM NIOBATE

****

* A-1390-773-A N BOARD, COMPLETE

****

<CAPACITOR>

C6501	1-124-779-00	ELECT	10MF	20%	16V
C6502	1-165-319-11	CERAMIC CHIP	0.1MF		50V

<CONNECTOR>

CN6501	* 1-564-518-11	PLUG, CONNECTOR 3P

<DIODE>

D6501	8-719-158-17	DIODE RD5.6SB2

<IC>

IC6501	8-742-010-11	HYB IC SBX1971-51

<RESISTOR>

R6501	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6502	1-216-017-91	METAL GLAZE	47	5%	1/10W

****

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

X

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1390-774-A	X BOARD, COMPLETE ********************	
		<CONNECTOR>	
CN6901	* 1-568-983-11	CONNECTOR, FEMALE 96P	
CN6902	1-778-393-11	PIN, PC CONNECTOR 96P	

`***********************************************************`

MISCELLANEOUS
`*****************`

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-500-051-11	BEAD, FERRITE (WITH CASE)	
	1-500-459-11	FILTER, CLAMP (FERRITE CORE)	
	1-505-461-11	SPEAKER (9X5CM)	
	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
	1-698-854-11	FAN, DC	
	1-698-855-11	FAN, DC	
	1-698-877-11	FAN, DC	
	* 1-758-066-11	OPTICAL UNIT	

`***********************************************************`

ACCESSORIES AND PACKING MATERIALS
`****************************************`

REF. NO.	PART NO.	DESCRIPTION	REMARK
	⚠ 1-551-812-11	CORD, POWER 7A/125V (S800U)	
	⚠ 1-590-151-11	CORD SET, POWER 10A/250V (S800M)	
	1-782-021-11	CORD, CONNECTION	
	3-861-168-11	MANUAL, INSTALLATION	
	3-861-168-21	MANUAL, INSTALLATION (S800M)	
	3-861-168-31	MANUAL, INSTALLATION (S800M)	
	3-861-169-11	MANUAL, INSTRUCTION	
	3-861-169-21	MANUAL, INSTRUCTION (S800M)	
	3-861-169-31	MANUAL, INSTRUCTION (S800M)	
	* 4-059-551-01	CUSHION (UPPER) (ASSY)	
	* 4-059-552-01	CUSHION (LOWER) (ASSY)	
	* 4-059-658-01	INDIVIDUAL CARTON (S800U)	
	* 4-059-659-01	INDIVIDUAL CARTON (S800M)	
	7-682-663-09	SCREW +PSW 4X12 (FOR OPTIONAL LENS INSTALLATION)	
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3 (S800U)	

REMOTE COMMANDER
`*********************`

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-473-890-11	REMOTE COMMANDER (RM-PJM800)	
	9-939-659-01	BATTERY COVER (FOR RM-PJM800)	

PK-PJ800

REF. NO.	PART NO.	DESCRIPTION	REMARK
	3-858-367-02	MANUAL, INSTRUCTION	
	4-033-712-01	WASHER	
	* 4-056-622-01	CONTROLLER A, AIR	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	7-682-547-04	SCREW +P 3X6	
	7-682-560-04	SCREW +P 4X6	
	7-684-024-04	N4, TYPE 2	

PSS-800

REF. NO.	PART NO.	DESCRIPTION	REMARK
	3-810-336-01	MANUAL, INSTRUCTION	
	4-047-748-01	WASHER (M8), FLAT	
	4-047-749-01	WASHER (M8), SPRING	
	4-056-753-01	SPACER	
	4-056-754-01	BOLT (M6X12), HEXAGON HEAD	
	4-056-755-01	WASHER (M6), PLAIN	
	4-047-766-01	BOLT (M8X20), HEXAGON	
	4-056-870-01	SPACER, SHIM	

SU-PJ800

REF. NO.	PART NO.	DESCRIPTION	REMARK
	3-810-335-02	MANUAL, INSTRUCTION	
	* 4-058-765-01	INDIVIDUAL CARTON	
	4-058-721-01	BOLT (M8X20), WASHER HEXAGON	

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